



Appendix B

E-UTRA Band 12



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



CONTENT

1. EFFECTIVE (ISOTROPIC) RADIATED POWER	4
1.1. TEST RESULT FOR DOWN ANTENNA	4
1.2. TEST RESULT FOR UP ANTENNA	10
2. PEAK-TO-AVERAGE RATIO(CCDF)	18
2.1. TEST RESULT	18
2.2. TEST PLOTS	18
3. MODULATION CHARACTERISTICS.....	23
3.1. TEST BAND = LTE BAND 12.....	23
3.2. TEST MODE = LTE /TM1 10MHZ.....	23
3.2.1. TEST CHANNEL = MCH	23
3.3. TEST MODE = LTE /TM2 10MHZ.....	24
3.3.1. TEST CHANNEL = MCH	24
3.4. TEST MODE = LTE /TM3 10MHZ.....	25
3.4.1. TEST CHANNEL = MCH	25
4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....	26
4.1. TEST RESULT	26
4.2. TEST PLOTS	27
5. BAND EDGE COMPLIANCE.....	45
5.1. TEST PLOTS	45
6. SPURIOUS EMISSION AT ANTENNA TERMINAL.....	69
6.1. TEST PLOTS	69
7. FIELD STRENGTH OF SPURIOUS RADIATION	78
7.1. TEST BAND = LTE BAND 12.....	78
7.1.1. TEST MODE =LTE/TM1(DOWN ANT).....	78
7.1.1.1. TEST CHANNEL = LCH_ VERTICAL	78
7.1.1.2. TEST CHANNEL = LCH_ HORIZONTAL	79
7.1.1.3. TEST CHANNEL = MCH_ VERTICAL	80
7.1.1.4. TEST CHANNEL = MCH_ HORIZONTAL.....	81



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



7.1.1.5. TEST CHANNEL = HCH_ VERTICAL82

7.1.1.6. TEST CHANNEL = HCH_ HORIZONTAL.....83

7.1.2. TEST MODE =LTE/TM1 (UP ANT)84

7.1.2.1. TEST CHANNEL = LCH_ VERTICAL84

7.1.2.2. TEST CHANNEL = LCH_ HORIZONTAL85

7.1.2.3. TEST CHANNEL = MCH_ VERTICAL86

7.1.2.4. TEST CHANNEL = MCH_ HORIZONTAL.....87

7.1.2.5. TEST CHANNEL = HCH_ VERTICAL88

7.1.2.6. TEST CHANNEL = HCH_ HORIZONTAL.....89

8. FREQUENCY STABILITY90

8.1. FREQUENCY VS VOLTAGE.....90

8.2. FREQUENCY VS TEMPERATURE.....91



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



1. Effective (Isotropic) Radiated Power

1.1. Test Result for Down Antenna

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.74	16.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.67	16.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.79	16.47	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.81	16.49	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.87	16.55	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.81	16.49	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.88	15.56	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.78	16.46	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.70	16.38	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.77	16.45	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.73	16.41	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.82	16.50	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.83	16.51	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.83	15.51	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.78	16.46	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.68	16.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.78	16.46	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.72	16.40	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.75	16.43	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.78	16.46	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.85	15.53	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.83	14.51	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.90	14.58	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.82	14.50	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	21.90	14.58	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#1	21.98	14.66	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	21.91	14.59	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	19.94	12.62	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	22.20	14.88	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.11	14.79	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	22.20	14.88	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	21.87	14.55	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	1.4MHz	64QAM	23095	3RB#1	22.12	14.80	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	21.83	14.51	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.02	12.70	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	22.12	14.80	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.90	14.58	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.89	14.57	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	22.10	14.78	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#1	21.85	14.53	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#3	21.99	14.67	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.07	12.75	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.94	15.62	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.77	15.45	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.04	15.72	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.80	15.48	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.93	15.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.98	15.66	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.93	14.61	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.01	15.69	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.76	15.44	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.05	15.73	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.79	15.47	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.84	15.52	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.86	15.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.93	14.61	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.03	15.71	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.73	15.41	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.92	15.60	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.86	15.54	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.87	15.55	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.90	15.58	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.77	14.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.96	16.64	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.89	16.57	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.71	16.39	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.69	15.37	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.92	15.60	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.84	15.52	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.74	15.42	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	3MHz	QPSK	23095	1RB#0	23.78	16.46	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.74	16.42	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.75	16.43	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.91	15.59	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.73	15.41	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.79	15.47	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.86	15.54	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.73	16.41	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.68	16.36	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.76	16.44	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.87	15.55	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.75	15.43	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.74	15.42	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.88	15.56	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	22.18	14.86	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.99	14.67	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	22.01	14.69	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#0	20.88	13.56	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#4	20.96	13.64	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#7	20.94	13.62	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.18	13.86	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.89	14.57	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.89	14.57	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.87	14.55	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#0	21.08	13.76	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#4	21.01	13.69	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#7	21.11	13.79	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.81	13.49	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	22.17	14.85	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	22.12	14.80	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.03	14.71	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#0	21.17	13.85	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#4	20.90	13.58	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#7	21.16	13.84	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	21.06	13.74	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.90	15.58	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.01	15.69	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.88	15.56	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	3MHz	16QAM	23025	8RB#0	21.70	14.38	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.75	14.43	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.89	14.57	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.73	14.41	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.03	15.71	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.07	15.75	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.04	15.72	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.90	14.58	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.80	14.48	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.89	14.57	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.89	14.57	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.94	15.62	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.95	15.63	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.09	15.77	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.82	14.50	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.82	14.50	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.88	14.56	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.87	14.55	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.78	16.46	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.83	16.51	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.93	16.61	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.79	15.47	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.96	15.64	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.01	15.69	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.82	15.50	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.75	16.43	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.84	16.52	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.84	16.52	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.95	15.63	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.83	15.51	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.85	15.53	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.77	15.45	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.68	16.36	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.78	16.46	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.73	16.41	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.92	15.60	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.72	15.40	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.84	15.52	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	5MHz	QPSK	23155	25RB#0	22.91	15.59	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.87	14.55	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.93	14.61	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.85	14.53	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#0	20.90	13.58	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#6	20.82	13.50	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#13	21.06	13.74	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.81	13.49	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.17	14.85	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.98	14.66	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	22.15	14.83	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#0	21.16	13.84	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#6	20.97	13.65	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#13	20.94	13.62	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.90	13.58	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.91	14.59	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	22.04	14.72	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.83	14.51	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#0	20.90	13.58	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#6	20.99	13.67	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#13	20.94	13.62	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.81	13.49	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.92	15.60	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.84	15.52	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.10	15.78	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.80	14.48	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.93	14.61	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.70	14.38	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.84	14.52	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.95	15.63	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.88	15.56	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.06	15.74	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.93	14.61	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.89	14.57	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	22.01	14.69	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.80	14.48	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.01	15.69	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.75	15.43	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	5MHz	16QAM	23155	1RB#24	23.00	15.68	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.86	14.54	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.67	14.35	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.87	14.55	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.73	14.41	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.74	16.42	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.72	16.40	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.76	16.44	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.91	15.59	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.77	15.45	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.70	15.38	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.93	15.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.62	16.30	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.72	16.40	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.92	16.60	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.92	15.60	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.91	15.59	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.77	15.45	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.82	15.50	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.79	16.47	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.76	16.44	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.75	16.43	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.74	15.42	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.98	15.66	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.73	15.41	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.74	15.42	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	22.15	14.83	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.93	14.61	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.80	14.48	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#0	21.05	13.73	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#12	21.03	13.71	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#25	21.02	13.70	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.80	13.48	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	22.17	14.85	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	22.07	14.75	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.00	14.68	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#0	21.19	13.87	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#12	21.08	13.76	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Inspection & Testing Services Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	10MHz	64QAM	23095	25RB#25	21.10	13.78	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	21.01	13.69	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.13	14.81	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	22.09	14.77	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.87	14.55	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#0	21.19	13.87	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#12	21.13	13.81	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#25	20.94	13.62	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.82	13.50	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.93	15.61	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.81	15.49	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.08	15.76	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.85	14.53	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.74	14.42	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.86	14.54	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.88	14.56	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.78	15.46	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.72	15.40	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.07	15.75	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.88	14.56	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.87	14.55	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.91	14.59	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.85	14.53	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.98	15.66	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.73	15.41	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.93	15.61	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.80	14.48	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.72	14.40	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.77	14.45	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.74	14.42	34.77	PASS

1.2. Test Result for Up Antenna

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.71	13.89	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.65	13.83	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.79	13.97	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.70	13.88	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	1.4MHz	QPSK	23017	3RB#1	23.76	13.94	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.77	13.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.76	12.94	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.78	13.96	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.62	13.80	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.71	13.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.86	14.04	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.73	13.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.70	13.88	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.92	13.10	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.73	13.91	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.72	13.90	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.68	13.86	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.82	14.00	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.68	13.86	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.70	13.88	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.87	13.05	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.71	11.89	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.64	11.82	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.66	11.84	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	21.71	11.89	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#1	21.70	11.88	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	21.71	11.89	34.77	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	20.67	10.85	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.83	12.01	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	22.01	12.19	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.95	12.13	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	21.90	12.08	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#1	21.65	11.83	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	21.92	12.10	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.71	10.89	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.91	12.09	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.69	11.87	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	22.14	12.32	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	21.87	12.05	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#1	21.88	12.06	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#3	21.99	12.17	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.82	11.00	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	1.4MHz	16QAM	23017	1RB#0	22.88	13.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.70	12.88	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.86	13.04	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.81	12.99	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.80	12.98	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.76	12.94	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.68	11.86	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.02	13.20	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.77	12.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.86	13.04	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.80	12.98	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.81	12.99	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.74	12.92	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.71	11.89	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.99	13.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.76	12.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.93	13.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.90	13.08	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.94	13.12	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.93	13.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.81	11.99	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.65	13.83	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.89	14.07	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.70	13.88	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.65	12.83	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.85	13.03	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.84	13.02	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.71	12.89	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.75	13.93	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.79	13.97	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.79	13.97	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.89	13.07	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.77	12.95	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.77	12.95	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.79	12.97	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.89	14.07	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.75	13.93	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.68	13.86	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	3MHz	QPSK	23165	8RB#0	22.90	13.08	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.88	13.06	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.71	12.89	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.90	13.08	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.65	11.83	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.82	12.00	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.69	11.87	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#0	20.64	10.82	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#4	20.68	10.86	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#7	20.79	10.97	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.90	11.08	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.99	12.17	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.86	12.04	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	22.04	12.22	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#0	20.91	11.09	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#4	20.71	10.89	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#7	20.69	10.87	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.86	11.04	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.72	11.90	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.92	12.10	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	22.06	12.24	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#0	20.75	10.93	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#4	20.64	10.82	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#7	20.78	10.96	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.62	10.80	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.73	12.91	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.77	12.95	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.88	13.06	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.65	11.83	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.90	12.08	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.79	11.97	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.67	11.85	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.98	13.16	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.02	13.20	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.89	13.07	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.89	12.07	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.84	12.02	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.83	12.01	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	3MHz	16QAM	23095	15RB#0	21.85	12.03	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.88	13.06	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.90	13.08	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.07	13.25	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.68	11.86	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.59	11.77	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.81	11.99	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.88	12.06	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.69	13.87	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.74	13.92	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.68	13.86	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.75	12.93	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.95	13.13	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.82	13.00	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.87	13.05	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.88	14.06	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.81	13.99	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.75	13.93	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.76	12.94	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.80	12.98	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.86	13.04	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.89	13.07	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.69	13.87	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.82	14.00	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.67	13.85	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.95	13.13	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.92	13.10	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.74	12.92	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.88	13.06	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.77	11.95	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.60	11.78	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.65	11.83	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#0	20.69	10.87	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#6	20.66	10.84	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#13	20.89	11.07	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.80	10.98	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	22.08	12.26	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.83	12.01	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	5MHz	64QAM	23095	1RB#24	21.98	12.16	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#0	20.74	10.92	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#6	20.82	11.00	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#13	20.73	10.91	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.90	11.08	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	22.16	12.34	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.75	11.93	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.91	12.09	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#0	20.93	11.11	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#6	20.91	11.09	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#13	20.87	11.05	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.64	10.82	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.85	13.03	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.81	12.99	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.80	12.98	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.70	11.88	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.66	11.84	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.91	12.09	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.80	11.98	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.05	13.23	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.68	12.86	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.84	13.02	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.70	11.88	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.84	12.02	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.89	12.07	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.88	12.06	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.08	13.26	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.92	13.10	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.97	13.15	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.86	12.04	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.85	12.03	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.82	12.00	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.83	12.01	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.72	13.90	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.63	13.81	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.69	13.87	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.88	13.06	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.75	12.93	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	10MHz	QPSK	23060	25RB#25	22.76	12.94	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.89	13.07	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.70	13.88	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.80	13.98	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.81	13.99	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.76	12.94	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.71	12.89	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.81	12.99	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.69	12.87	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.76	13.94	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.67	13.85	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.68	13.86	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.84	13.02	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.72	12.90	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.81	12.99	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.75	12.93	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.76	11.94	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.77	11.95	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.80	11.98	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#0	20.76	10.94	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#12	20.68	10.86	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#25	20.80	10.98	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.84	11.02	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.81	11.99	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.79	11.97	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	22.00	12.18	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#0	20.67	10.85	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#12	20.94	11.12	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#25	20.66	10.84	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.71	10.89	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	22.09	12.27	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.93	12.11	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.93	12.11	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#0	20.86	11.04	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#12	20.67	10.85	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#25	20.92	11.10	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.84	11.02	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.77	12.95	34.77	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch (Shenzhen) Laboratory
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	10MHz	16QAM	23060	1RB#24	22.93	13.11	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.90	13.08	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.74	11.92	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.65	11.83	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.78	11.96	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.81	11.99	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.81	12.99	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.87	13.05	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.94	13.12	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.69	11.87	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.86	12.04	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.86	12.04	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.63	11.81	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.95	13.13	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.84	13.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.79	12.97	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.86	12.04	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.59	11.77	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.79	11.97	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.78	11.96	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



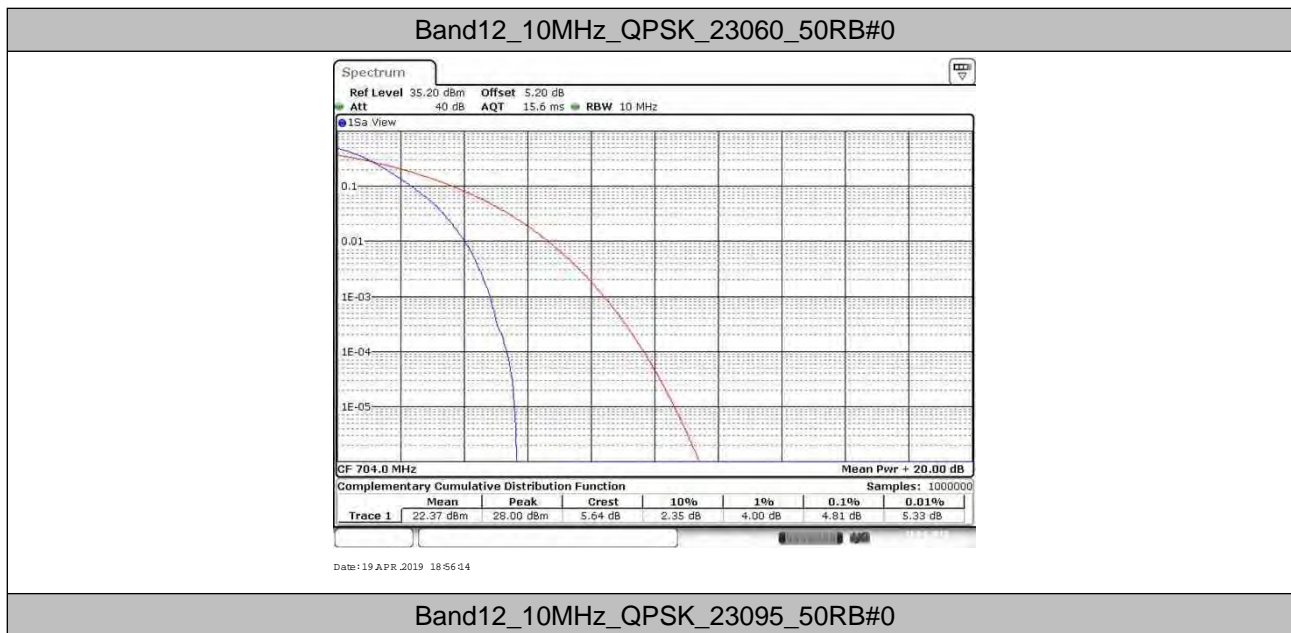
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.81	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.13	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.84	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	5.71	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	5.91	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	5.77	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.77	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.91	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.77	13	PASS

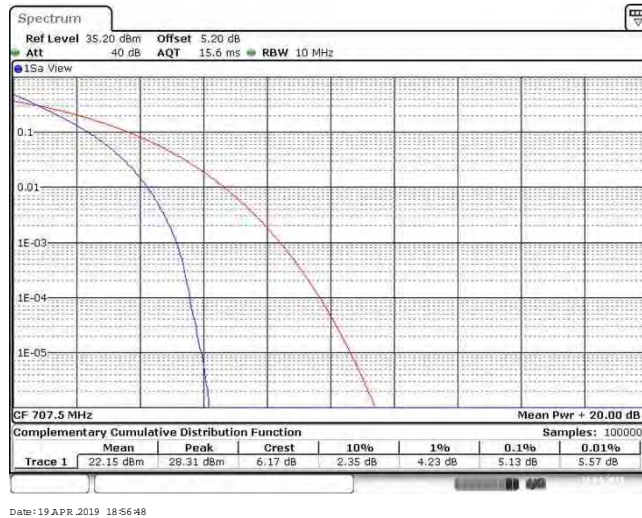
2.2. Test Plots



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

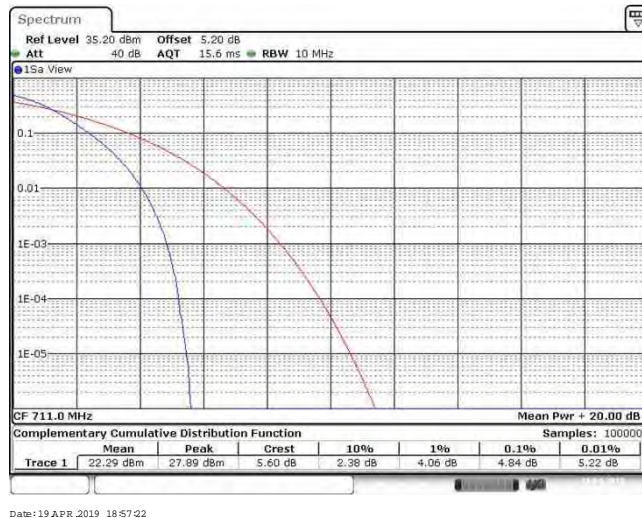
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 19 APR. 2019 18:56:48

Band12_10MHz_QPSK_23130_50RB#0

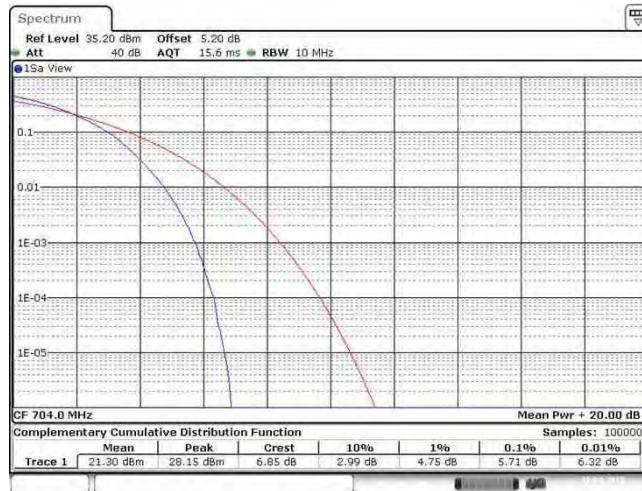


Date: 19 APR. 2019 18:57:22

Band12_10MHz_64QAM_23060_50RB#0

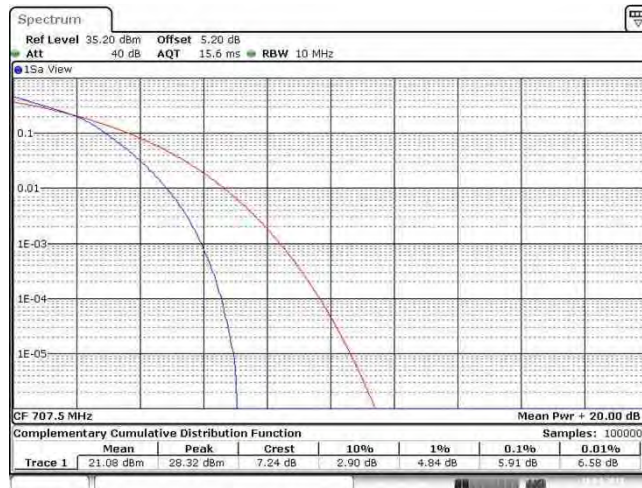


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 18:56:37

Band12_10MHz_64QAM_23095_50RB#0

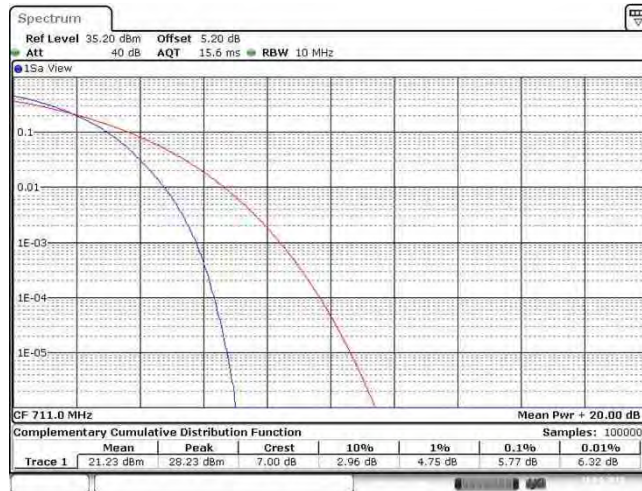


Date: 19 APR. 2019 18:57:40

Band12_10MHz_64QAM_23130_50RB#0

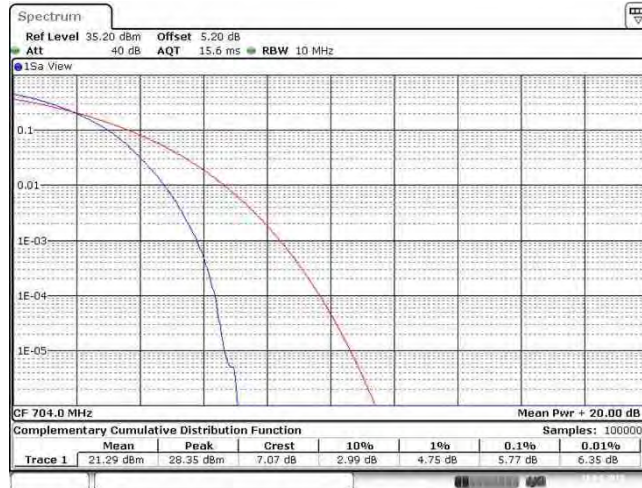


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 18:57:44

Band12_10MHz_16QAM_23060_50RB#0

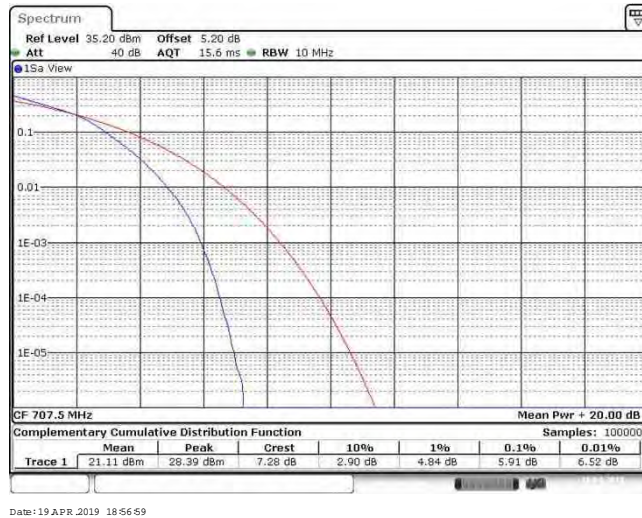


Date: 19 APR. 2019 18:56:26

Band12_10MHz_16QAM_23095_50RB#0

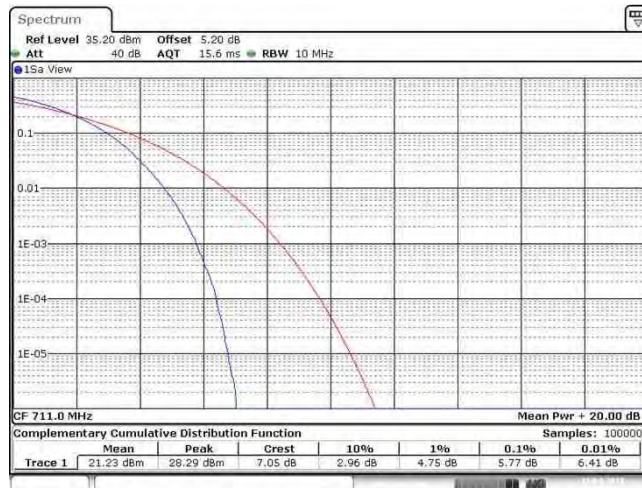


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 18:56:59

Band12_10MHz_16QAM_23130_50RB#0



Date: 19 APR. 2019 18:57:33



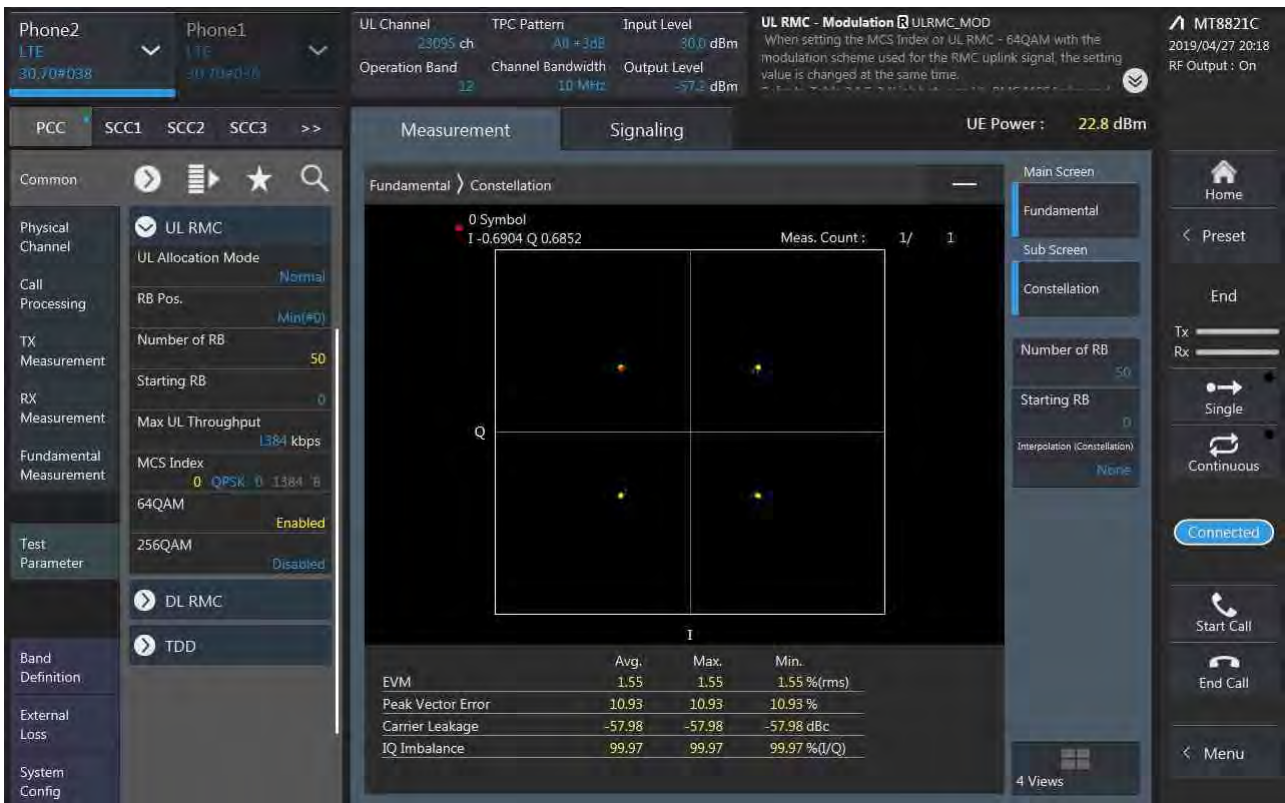
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

3. Modulation Characteristics

3.1. Test BAND = LTE Band 12

3.2. Test Mode = LTE /TM1 10MHz

3.2.1. Test Channel = MCH

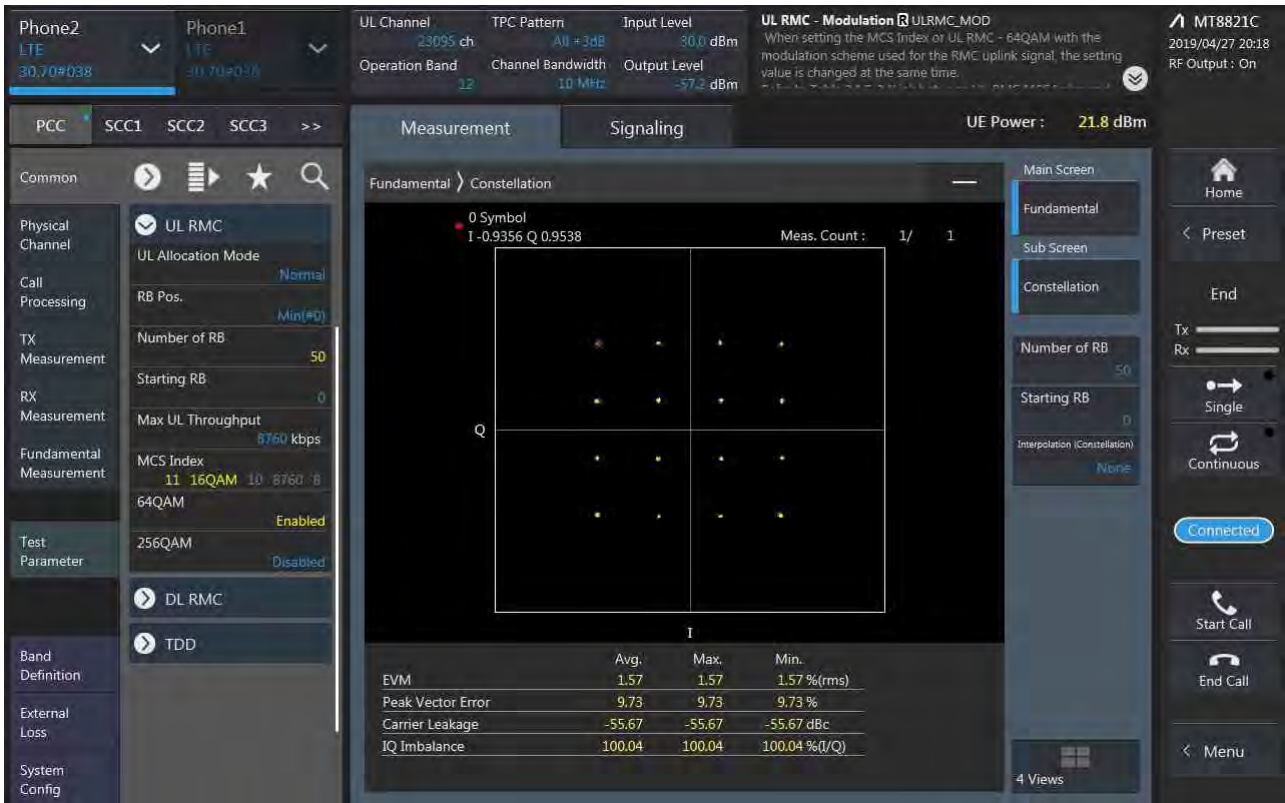


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



3.3. Test Mode = LTE /TM2 10MHz

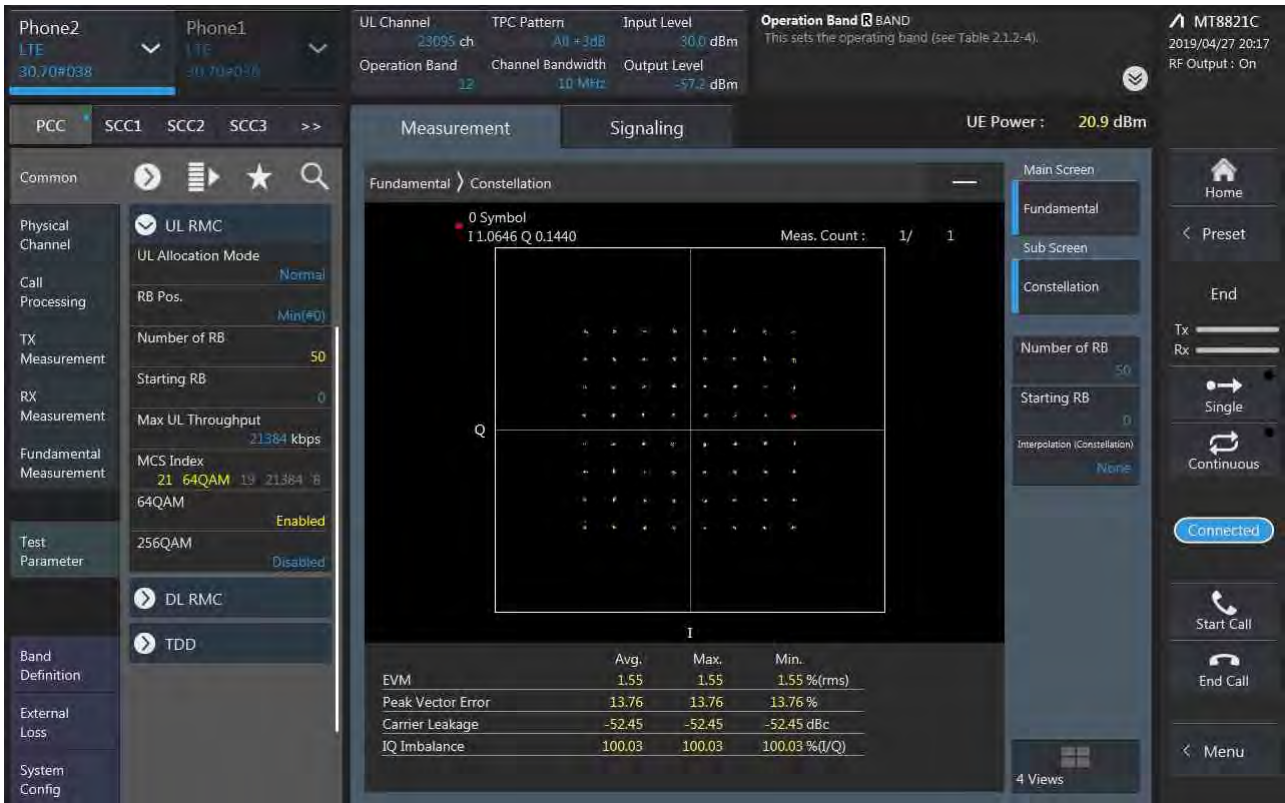
3.3.1. Test Channel = MCH



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

3.4. Test Mode = LTE /TM3 10MHz

3.4.1. Test Channel = MCH



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.100	1.245	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.097	1.251	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.103	1.257	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.097	1.245	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.097	1.248	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.097	1.251	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.100	1.251	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.100	1.251	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.103	1.257	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.691	2.976	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	2.976	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	2.988	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.697	2.970	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.709	2.982	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.697	2.970	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.691	2.964	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.697	2.970	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	2.952	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.900	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.930	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.456	4.870	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.456	4.890	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.476	4.940	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.456	4.880	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	4.910	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.476	4.910	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.456	4.890	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.911	9.740	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.971	9.900	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.911	9.760	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.911	9.700	PASS

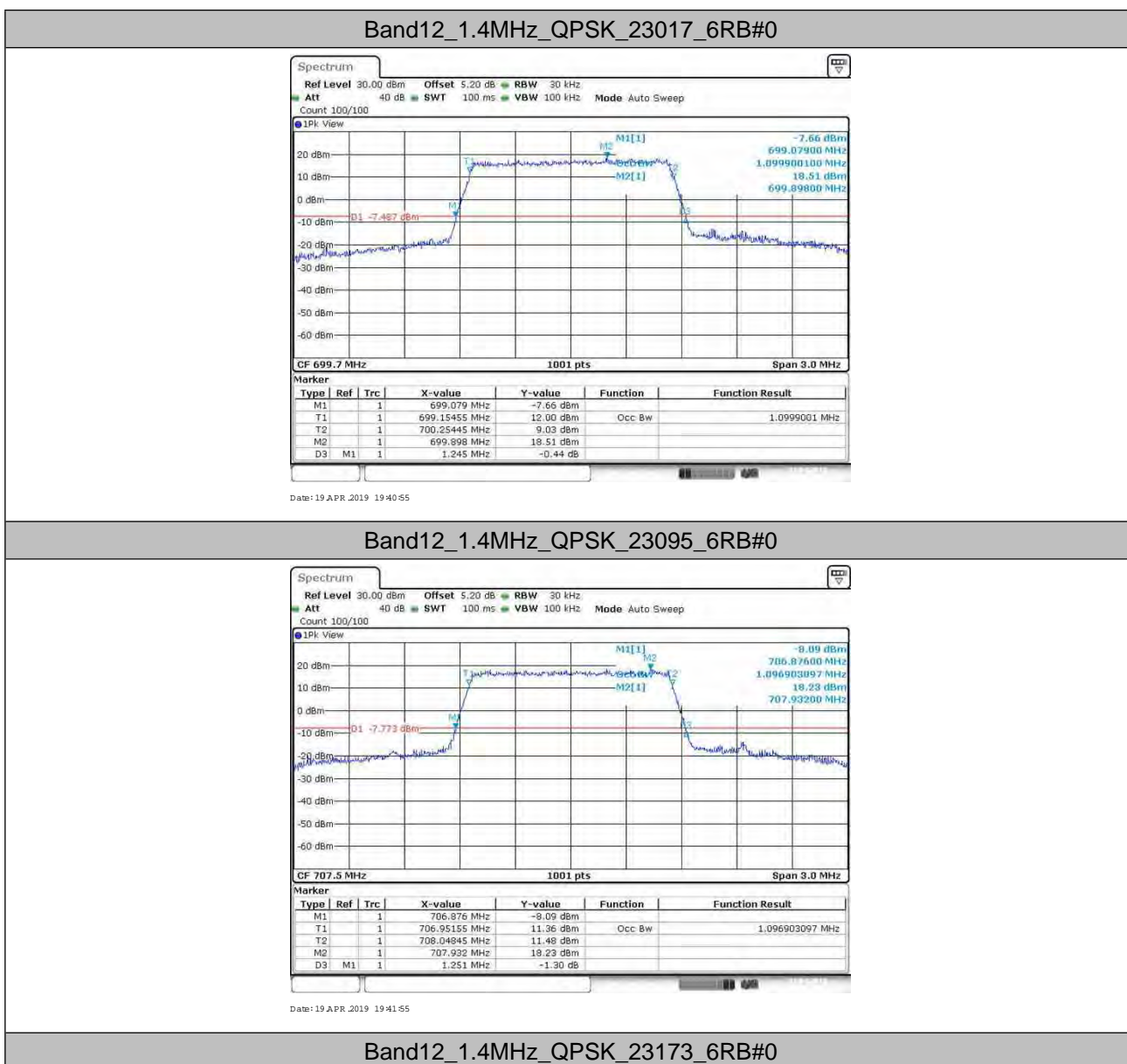


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

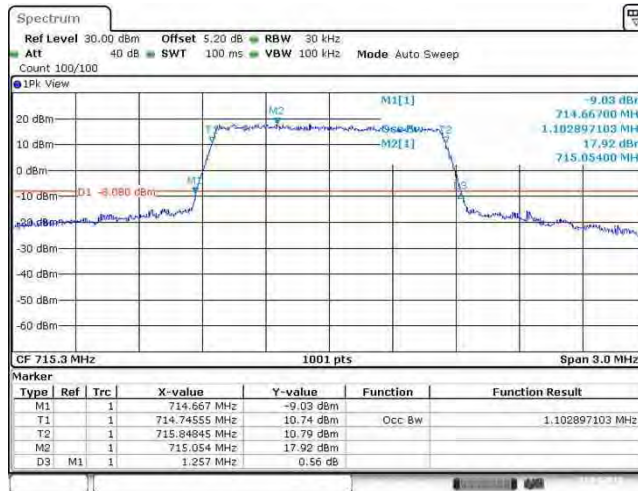
Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Band12	10MHz	64QAM	23095	50RB#0	8.971	9.840	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.911	9.740	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.911	9.720	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.971	9.880	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.700	PASS

4.2. Test Plots

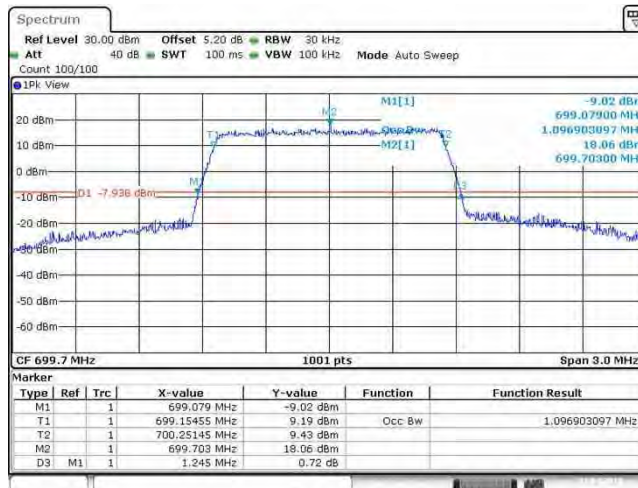


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:42:54

Band12_1.4MHz_64QAM_23017_6RB#0

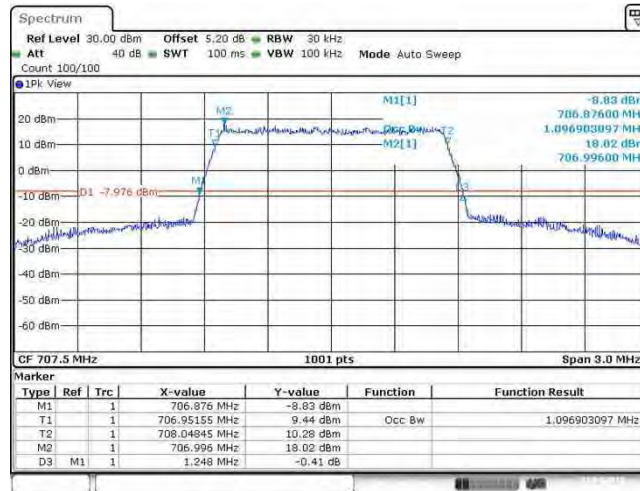


Date: 19 APR 2019 19:41:34

Band12_1.4MHz_64QAM_23095_6RB#0

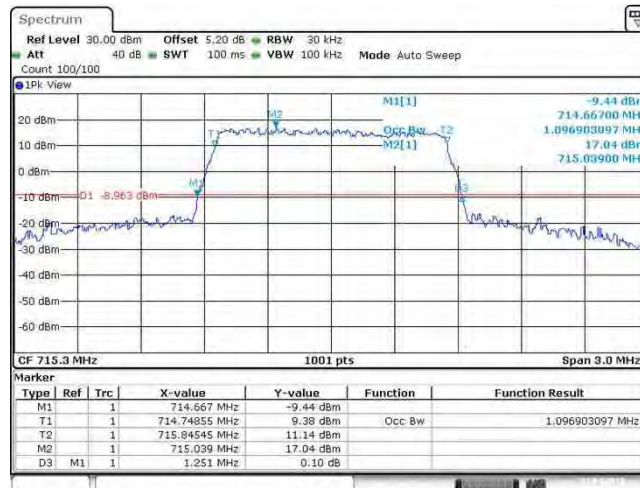


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:42:34

Band12_1.4MHz_64QAM_23173_6RB#0

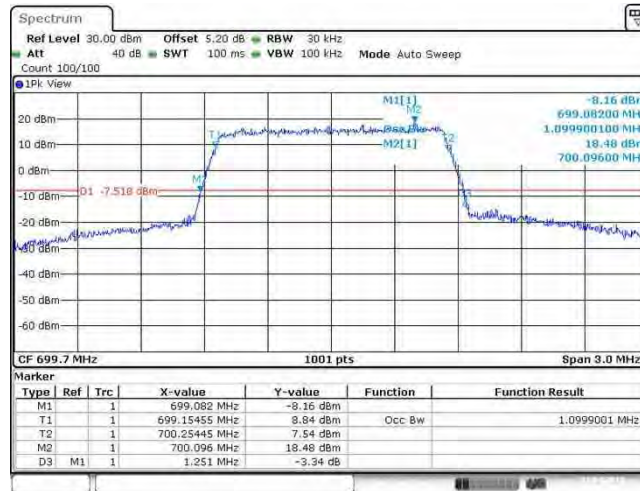


Date: 19 APR. 2019 19:43:34

Band12_1.4MHz_16QAM_23017_6RB#0

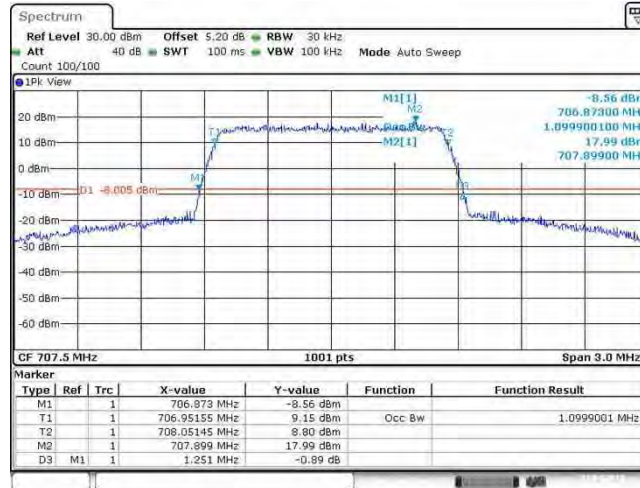


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:41:14

Band12_1.4MHz_16QAM_23095_6RB#

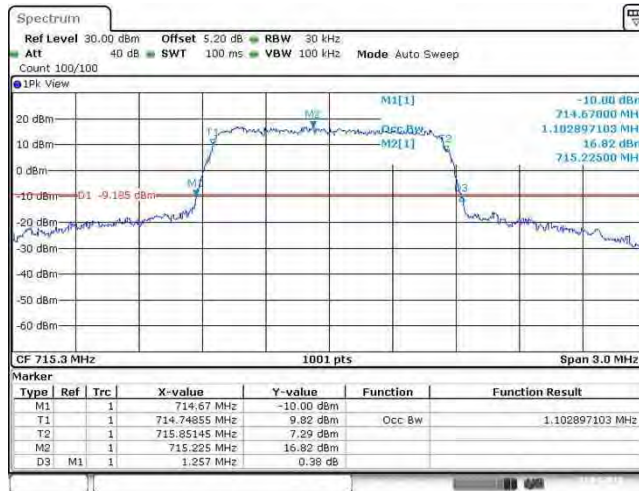


Date: 19 APR 2019 19:42:14

Band12_1.4MHz_16QAM_23173_6RB#

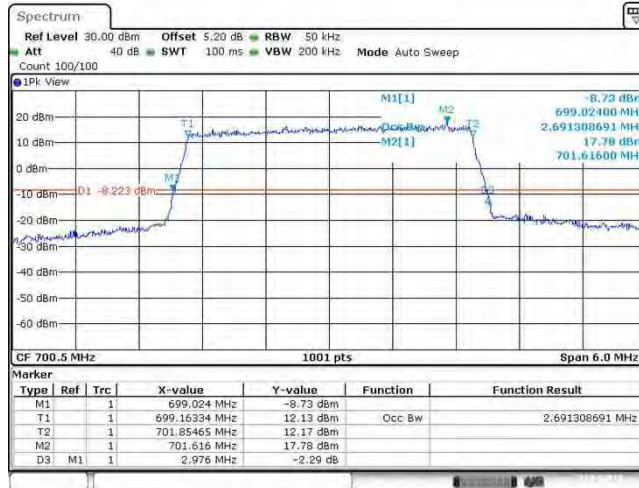


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:43:14

Band12_3MHz_QPSK_23025_15RB#0

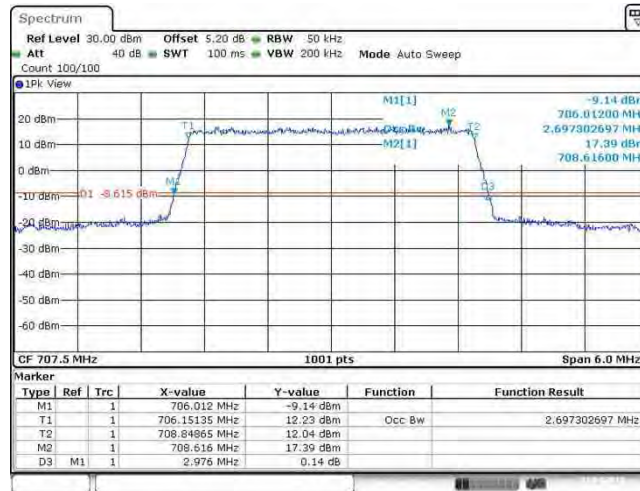


Date: 19 APR. 2019 19:43:56

Band12_3MHz_QPSK_23095_15RB#0

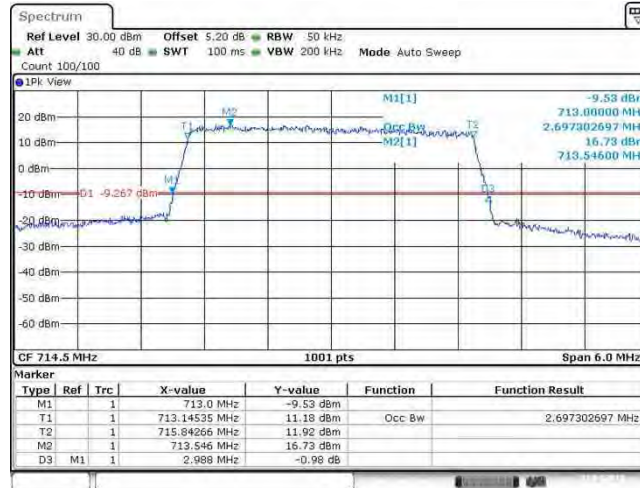


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:44:56

Band12_3MHz_QPSK_23165_15RB#0

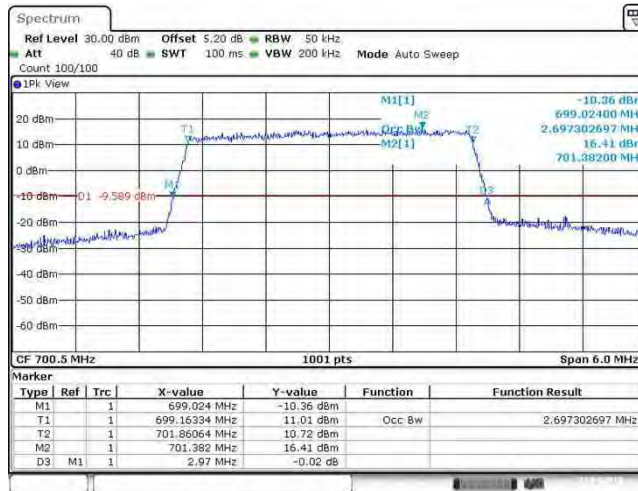


Date: 19 APR. 2019 19:45:56

Band12_3MHz_64QAM_23025_15RB#0

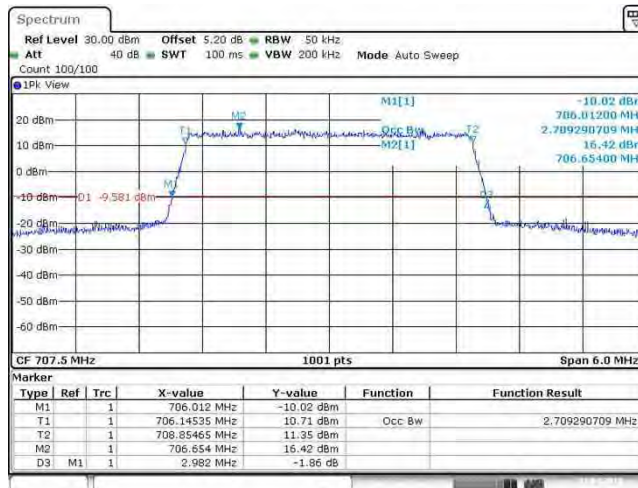


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:44:36

Band12_3MHz_64QAM_23095_15RB#0

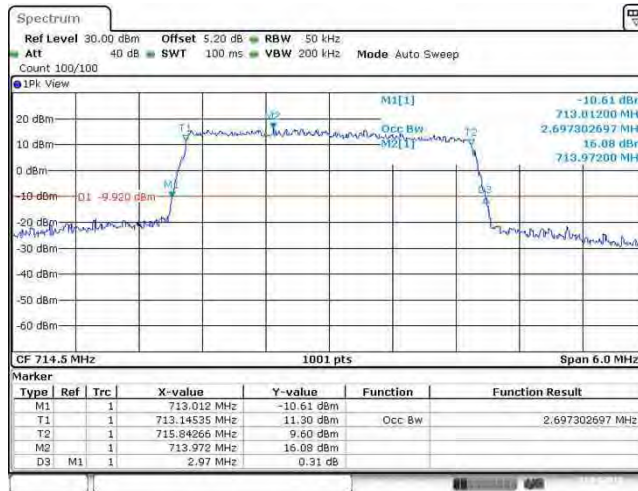


Date: 19 APR 2019 19:45:35

Band12_3MHz_64QAM_23165_15RB#0

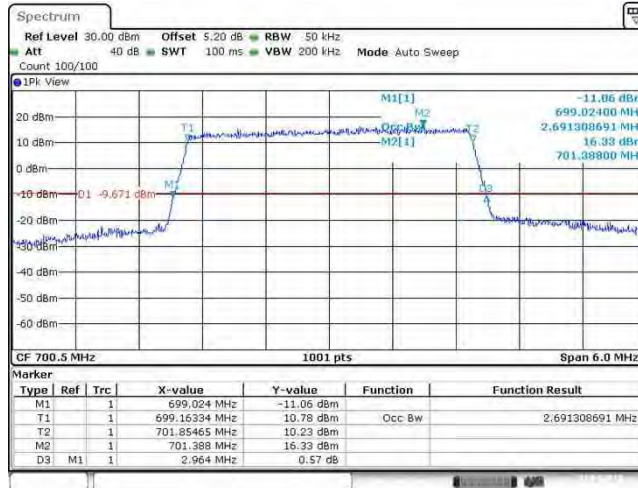


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:46:35

Band12_3MHz_16QAM_23025_15RB#0

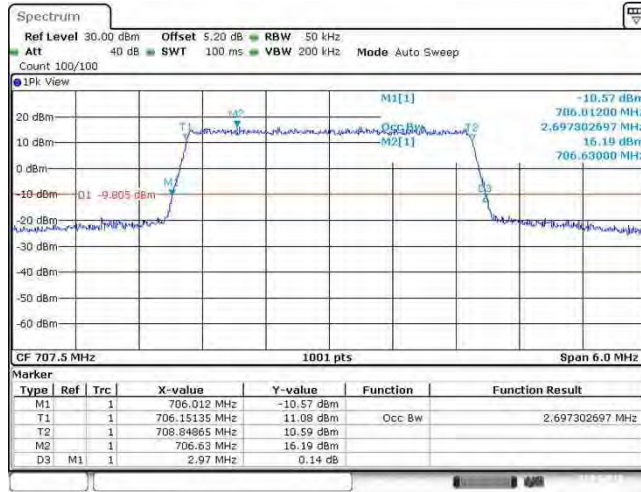


Date: 19 APR 2019 19:44:16

Band12_3MHz_16QAM_23095_15RB#0

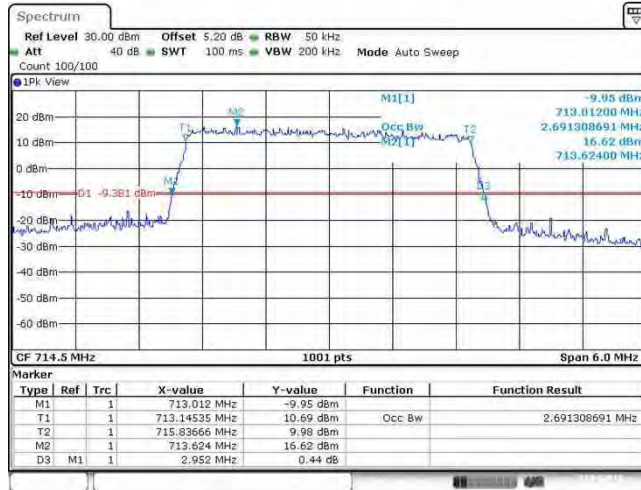


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:45:15

Band12_3MHz_16QAM_23165_15RB#

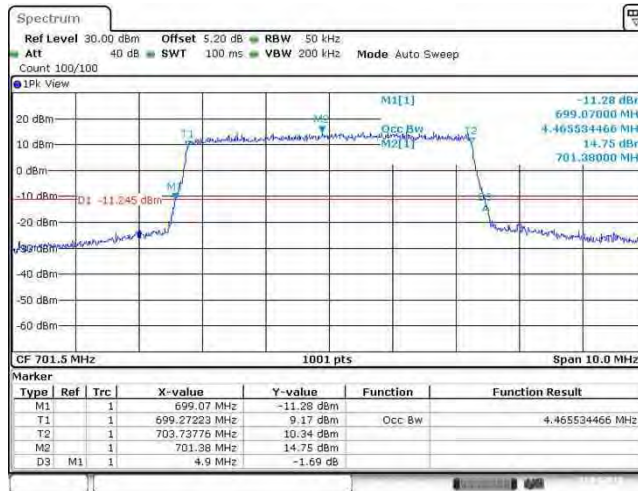


Date: 19 APR 2019 19:46:16

Band12_5MHz_QPSK_23035_25RB#

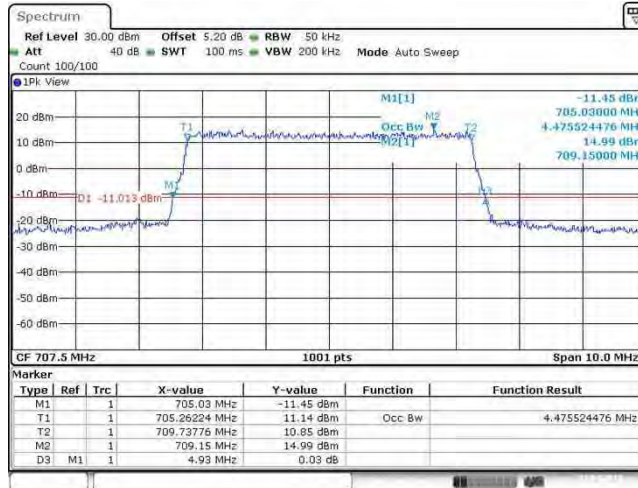


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:46:57

Band12_5MHz_QPSK_23095_25RB#0

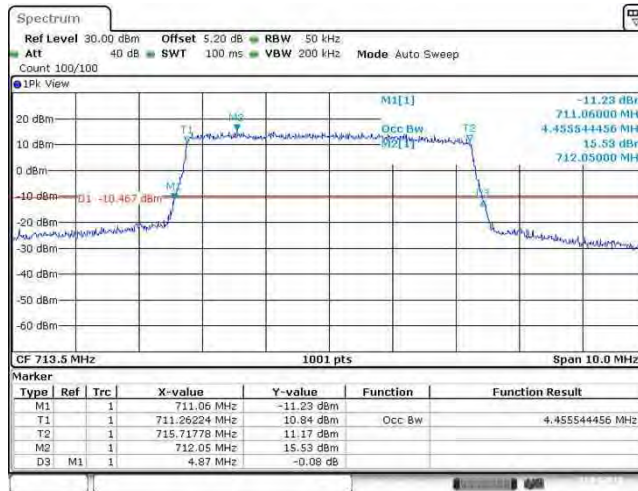


Date: 19 APR 2019 19:47:56

Band12_5MHz_QPSK_23155_25RB#0

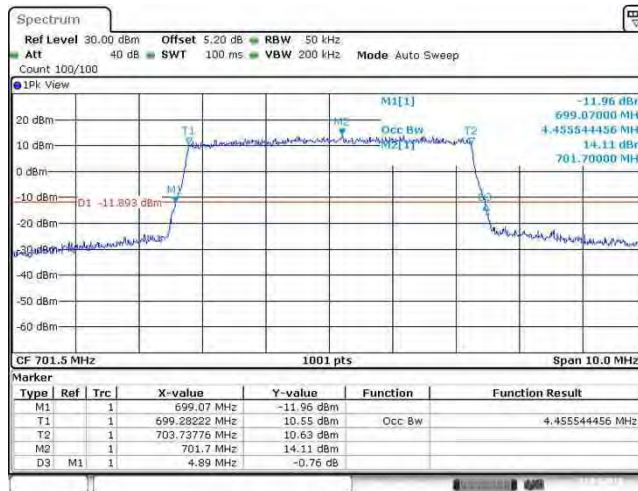


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:48:57

Band12_5MHz_64QAM_23035_25RB#

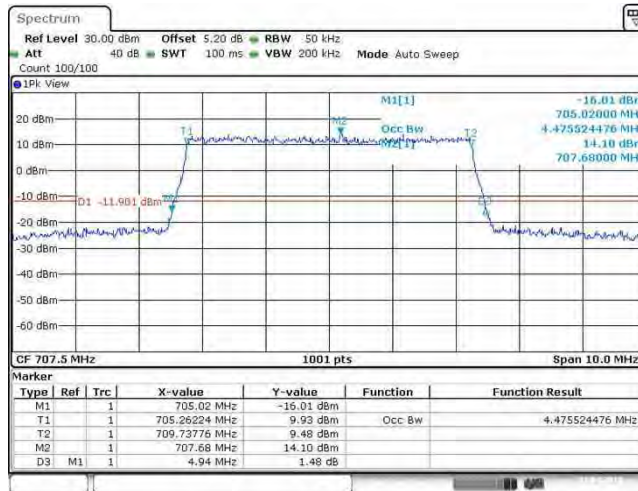


Date: 19 APR 2019 19:47:36

Band12_5MHz_64QAM_23095_25RB#

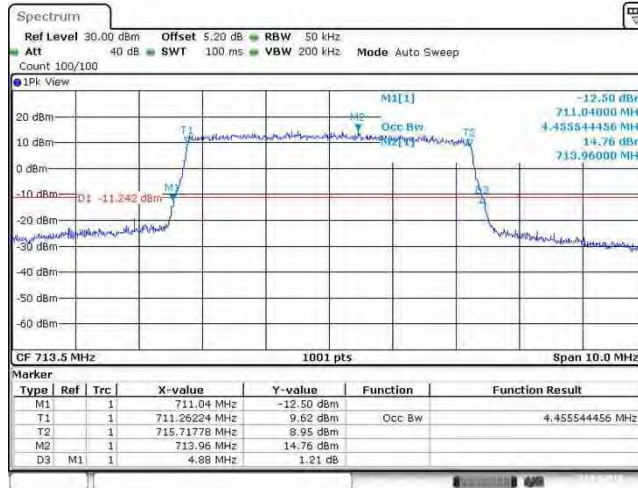


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:48:36

Band12_5MHz_64QAM_23155_25RB#

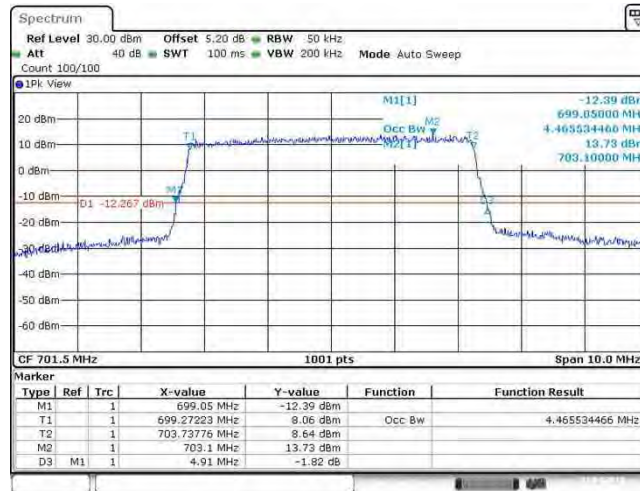


Date: 19 APR 2019 19:49:36

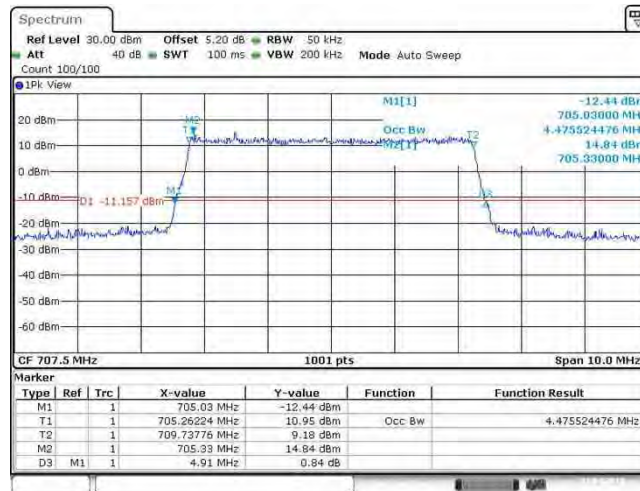
Band12_5MHz_16QAM_23035_25RB#



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Band12_5MHz_16QAM_23095_25RB#0

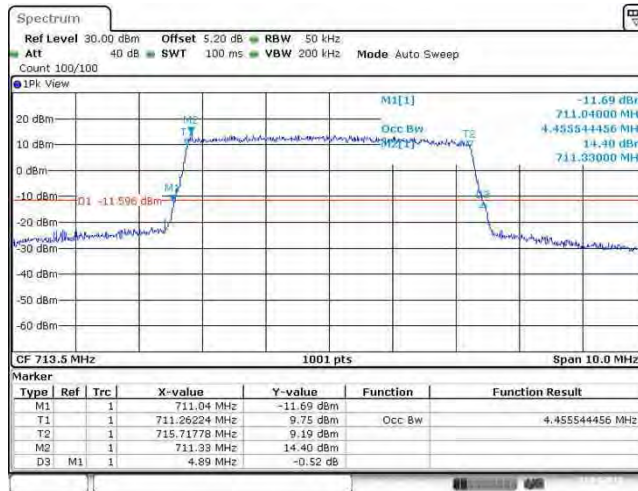


Band12_5MHz_16QAM_23155_25RB#0



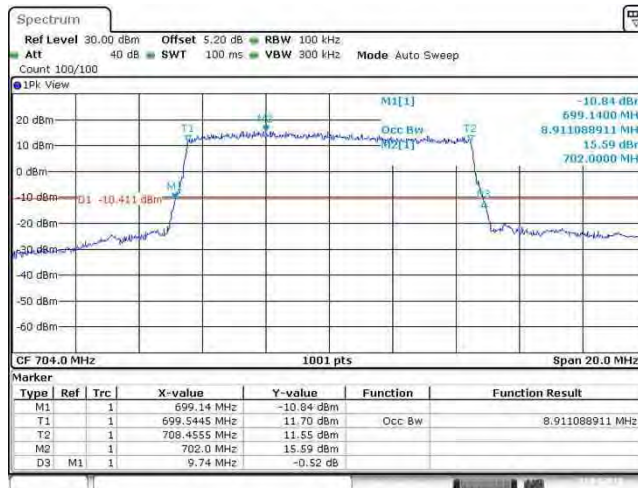
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 19 APR 2019 19:49:16

Band12_10MHz_QPSK_23060_50RB#

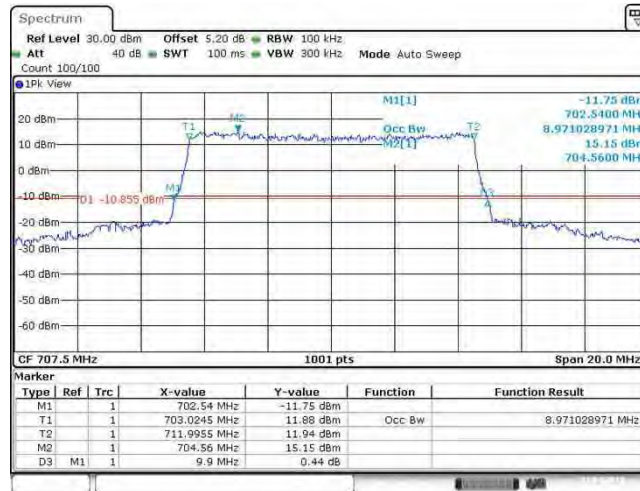


Date: 19 APR 2019 19:49:58

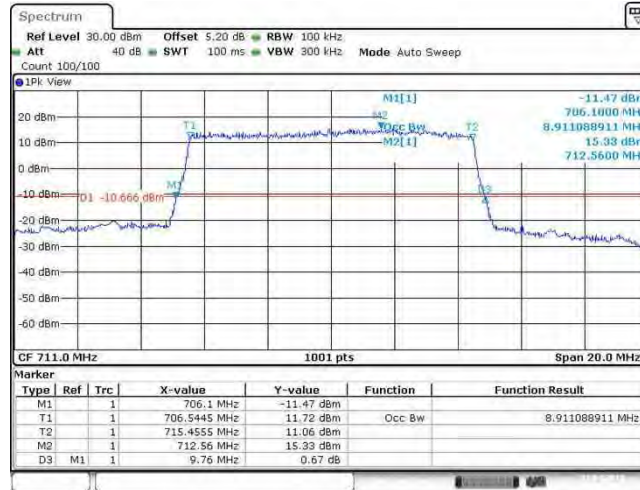
Band12_10MHz_QPSK_23095_50RB#



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



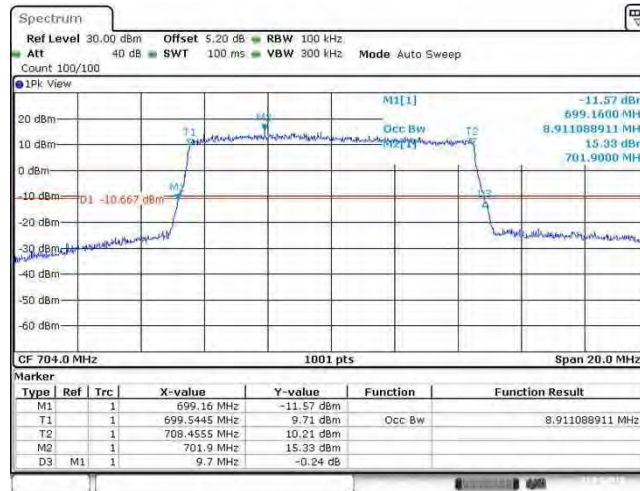
Band12_10MHz_QPSK_23130_50RB#0



Band12_10MHz_64QAM_23060_50RB#0

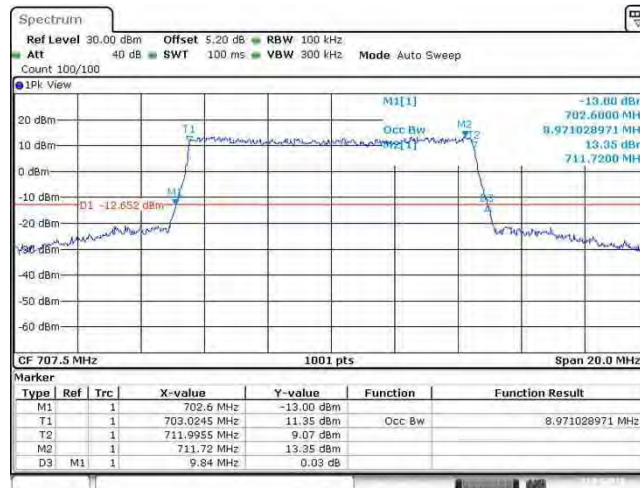


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:50:37

Band12_10MHz_64QAM_23095_50RB#0

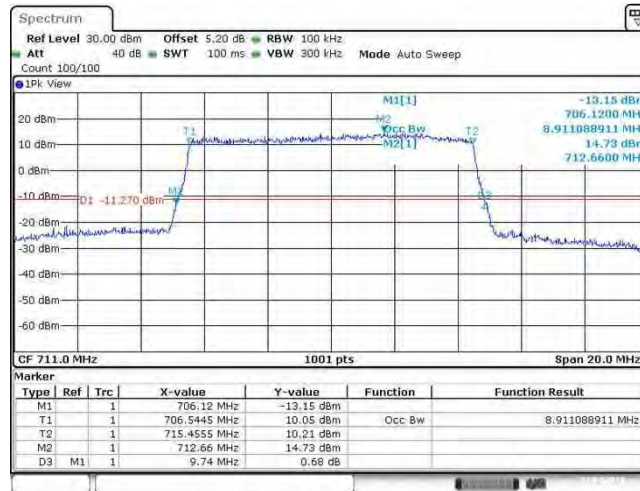


Date: 19 APR 2019 19:51:37

Band12_10MHz_64QAM_23130_50RB#0

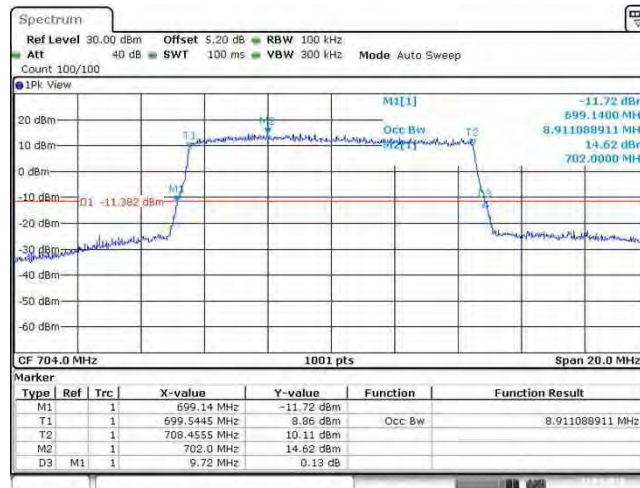


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:52:37

Band12_10MHz_16QAM_23060_50RB#0

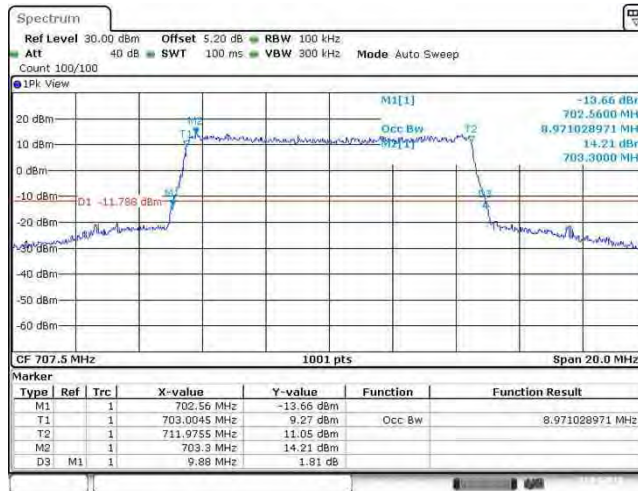


Date: 19 APR 2019 19:50:18

Band12_10MHz_16QAM_23095_50RB#0

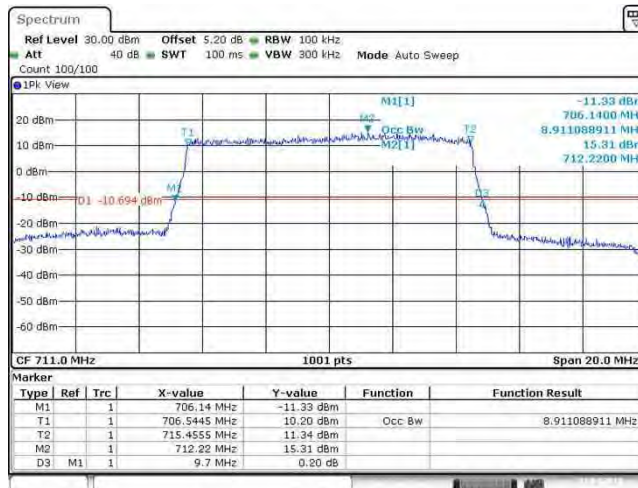


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR 2019 19:51:17

Band12_10MHz_16QAM_23130_50RB#0



Date: 19 APR 2019 19:52:17



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

5. Band Edge Compliance

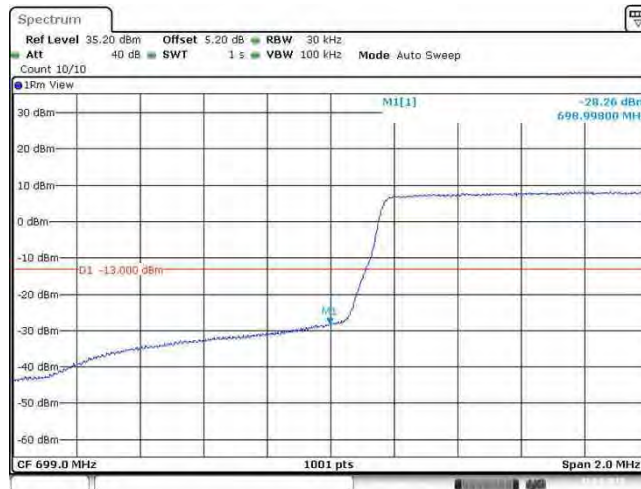
5.1. Test Plots

Band12_1.4MHz_QPSK_23017_1RB#0



Date: 19 APR. 2019 19:52:59

Band12_1.4MHz_QPSK_23017_6RB#0



Date: 19 APR. 2019 19:53:57

Band12_1.4MHz_QPSK_23173_1RB#5



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:54:57

Band12_1.4MHz_QPSK_23173_6RB#0

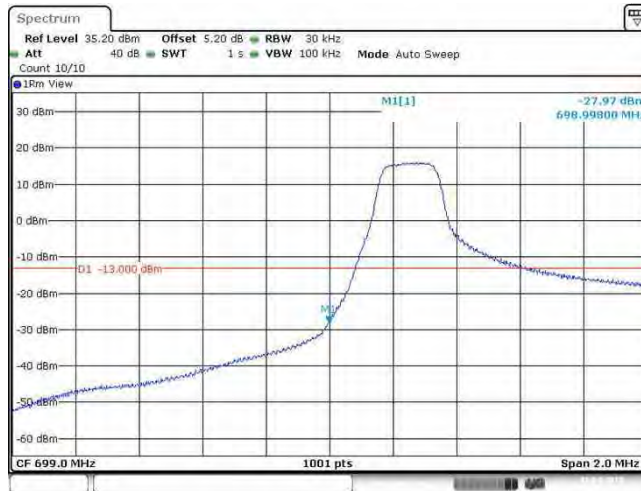


Date: 19 APR. 2019 19:55:54

Band12_1.4MHz_64QAM_23017_1RB#0

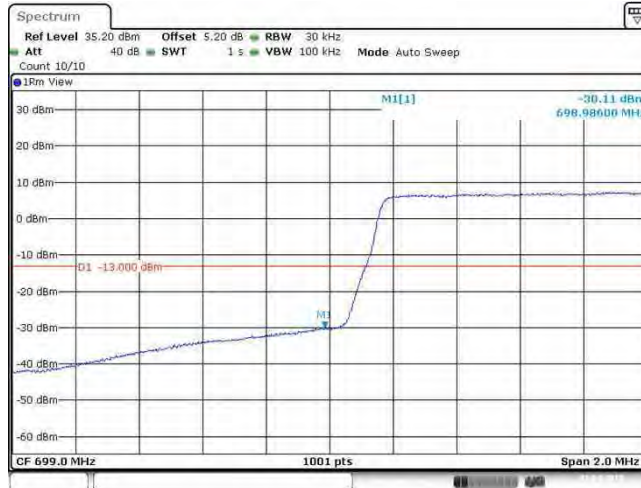


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:53:38

Band12_1.4MHz_64QAM_23017_6RB#0

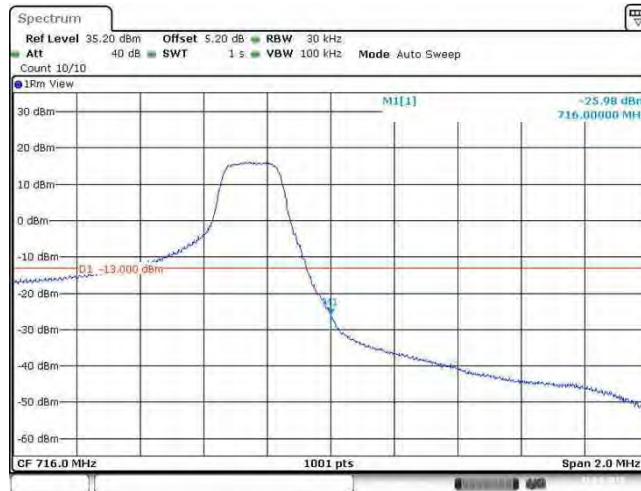


Date: 19 APR. 2019 19:54:36

Band12_1.4MHz_64QAM_23173_1RB#5



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:55:35

Band12_1.4MHz_64QAM_23173_6RB#0



Date: 19 APR. 2019 19:56:33

Band12_1.4MHz_16QAM_23017_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:53:18

Band12_1.4MHz_16QAM_23017_6RB#0



Date: 19 APR. 2019 19:54:16

Band12_1.4MHz_16QAM_23173_1RB#5



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:55:16

Band12_1.4MHz_16QAM_23173_6RB#0



Date: 19 APR. 2019 19:56:44

Band12_3MHz_QPSK_23025_1RB#0

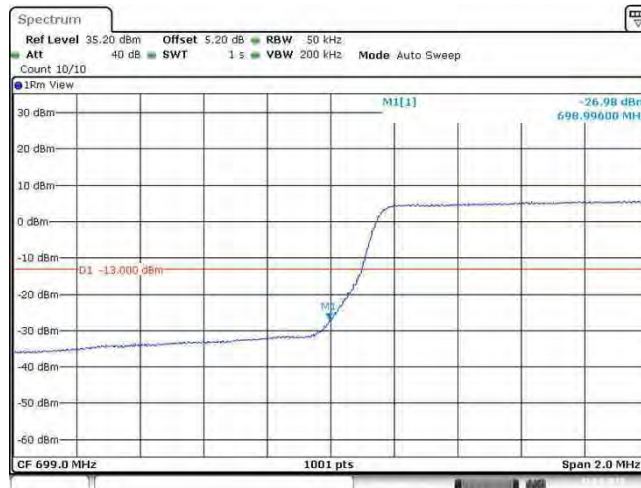


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:56:54

Band12_3MHz_QPSK_23025_15RB#0



Date: 19 APR. 2019 19:57:52

Band12_3MHz_QPSK_23165_1RB#14



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:58:52

Band12_3MHz_QPSK_23165_15RB#0



Date: 19 APR. 2019 19:59:50

Band12_3MHz_64QAM_23025_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:57:33

Band12_3MHz_64QAM_23025_15RB#0



Date: 19 APR. 2019 19:58:31

Band12_3MHz_64QAM_23165_1RB#14



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:59:30

Band12_3MHz_64QAM_23165_15RB#0



Date: 19 APR. 2019 20:00:29

Band12_3MHz_16QAM_23025_1RB#0

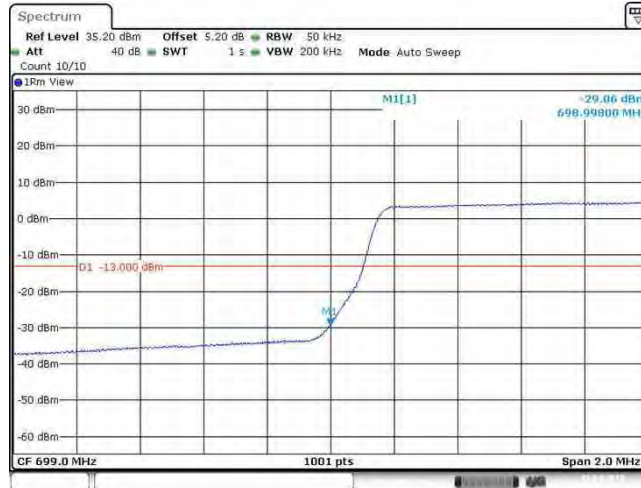


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:57:14

Band12_3MHz_16QAM_23025_15RB#0



Date: 19 APR. 2019 19:58:12

Band12_3MHz_16QAM_23165_1RB#14



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 19:59:11

Band12_3MHz_16QAM_23165_15RB#0

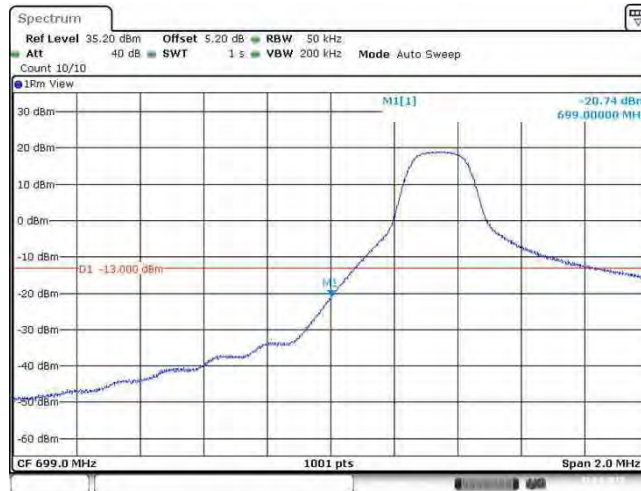


Date: 19 APR. 2019 20:00:09

Band12_5MHz_QPSK_23035_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:00:50

Band12_5MHz_QPSK_23035_25RB#0



Date: 19 APR. 2019 20:01:48

Band12_5MHz_QPSK_23155_1RB#24

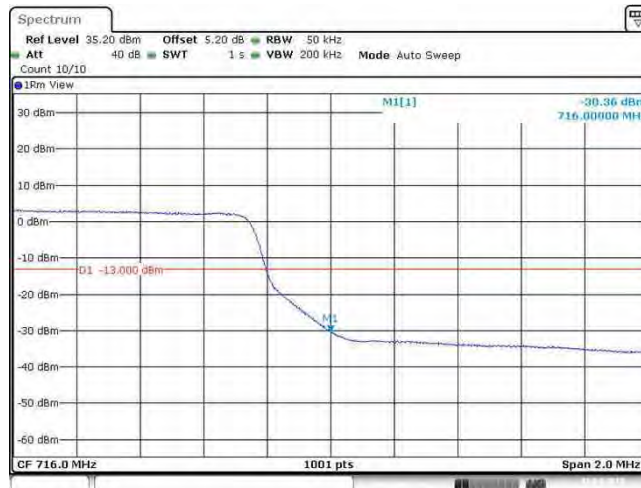


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 19 APR. 2019 20:02:48

Band12_5MHz_QPSK_23155_25RB#0

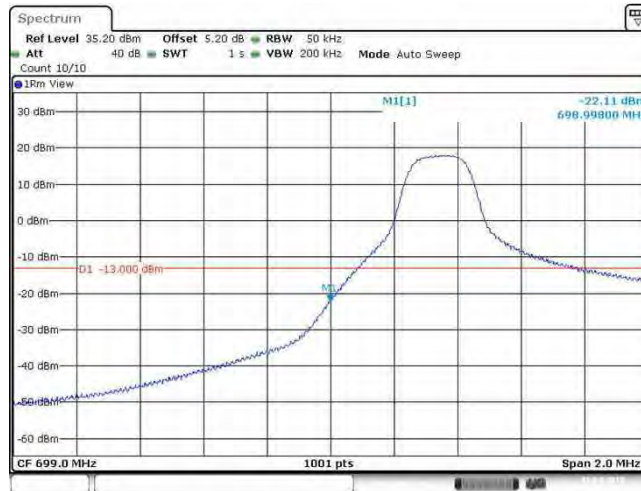


Date: 19 APR. 2019 20:03:46

Band12_5MHz_64QAM_23035_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:01:29

Band12_5MHz_64QAM_23035_25RB#0



Date: 19 APR. 2019 20:02:27

Band12_5MHz_64QAM_23155_1RB#24



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:03:26

Band12_5MHz_64QAM_23155_25RB#0

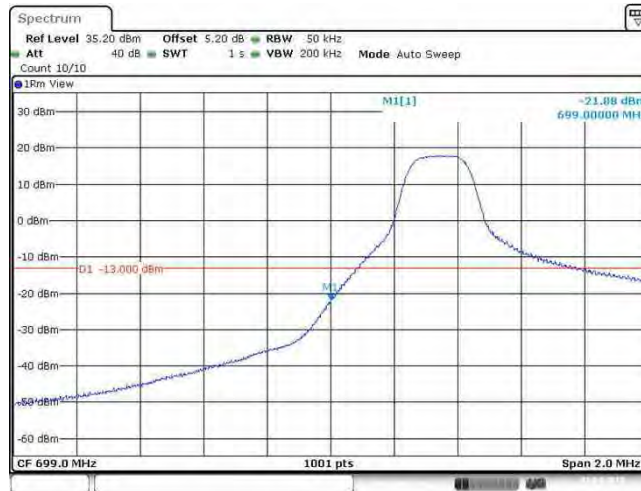


Date: 19 APR. 2019 20:04:25

Band12_5MHz_16QAM_23035_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:01:09

Band12_5MHz_16QAM_23035_25RB#0



Date: 19 APR. 2019 20:02:47

Band12_5MHz_16QAM_23155_1RB#24



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:03:07

Band12_5MHz_16QAM_23155_25RB#0



Date: 19 APR. 2019 20:04:05

Band12_10MHz_QPSK_23060_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:04:46

Band12_10MHz_QPSK_23060_50RB#0



Date: 19 APR. 2019 20:05:44

Band12_10MHz_QPSK_23130_1RB#49



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:06:44

Band12_10MHz_QPSK_23130_50RB#0



Date: 19 APR. 2019 20:07:42

Band12_10MHz_64QAM_23060_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:05:25

Band12_10MHz_64QAM_23060_50RB#0



Date: 19 APR. 2019 20:06:23

Band12_10MHz_64QAM_23130_1RB#49



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:07:23

Band12_10MHz_64QAM_23130_50RB#0



Date: 19 APR. 2019 20:08:21

Band12_10MHz_16QAM_23060_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:05:05

Band12_10MHz_16QAM_23060_50RB#0



Date: 19 APR. 2019 20:06:03

Band12_10MHz_16QAM_23130_1RB#49



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:07:04

Band12_10MHz_16QAM_23130_50RB#0



Date: 19 APR. 2019 20:08:02



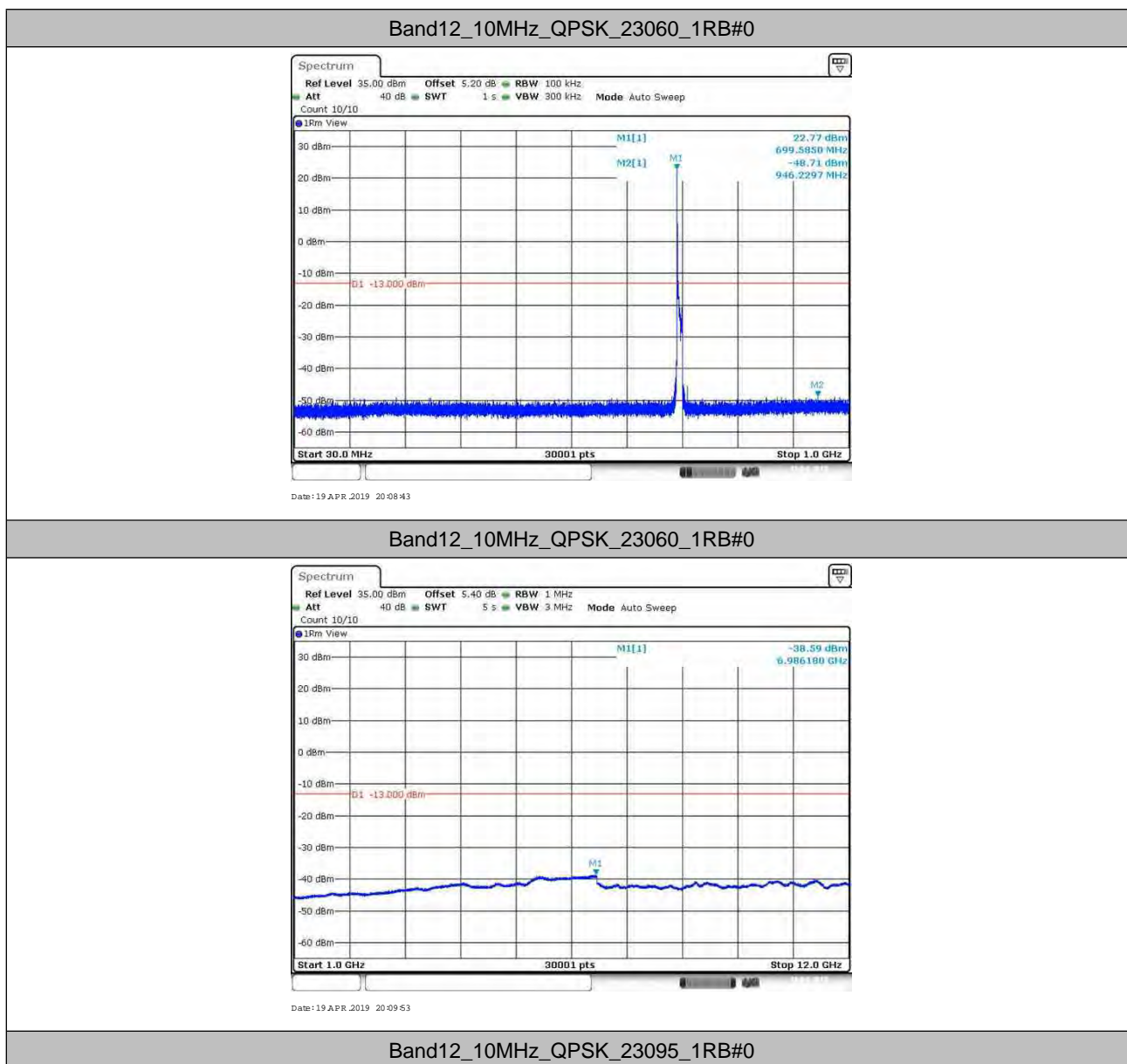
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

6. Spurious Emission at Antenna Terminal

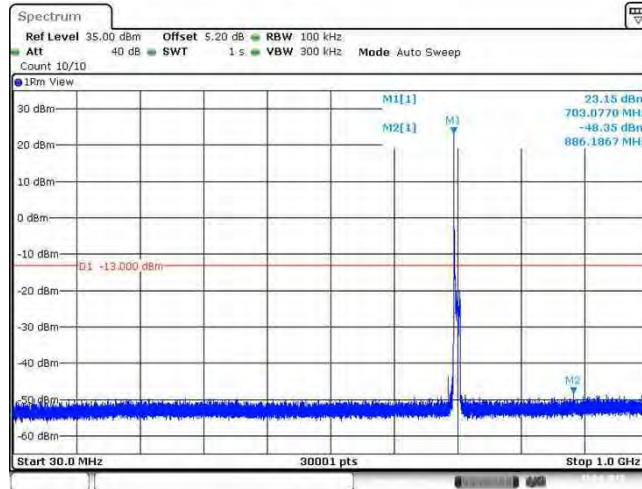
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Plots

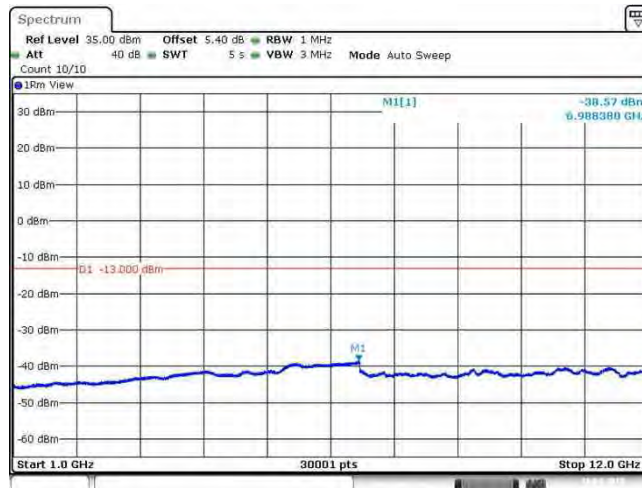


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Date: 19 APR. 2019 20:13:12

Band12_10MHz_QPSK_23095_1RB#0

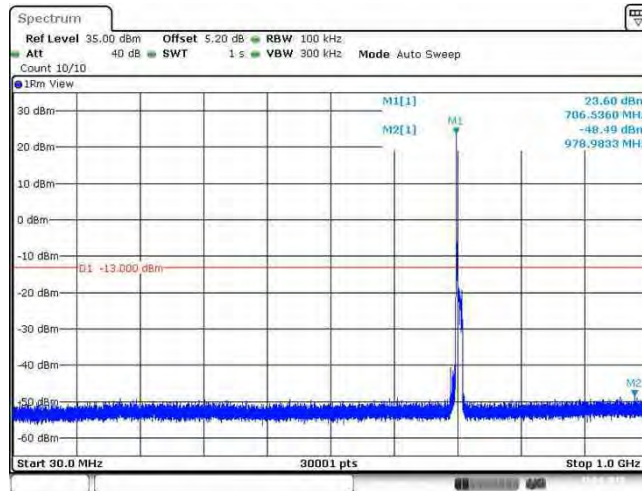


Date: 19 APR. 2019 20:14:23

Band12_10MHz_QPSK_23130_1RB#0

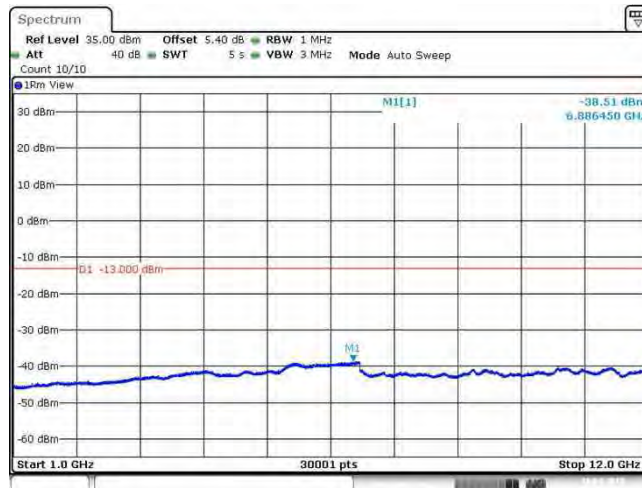


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 19 APR. 2019 20:17:42

Band12_10MHz_QPSK_23130_1RB#0

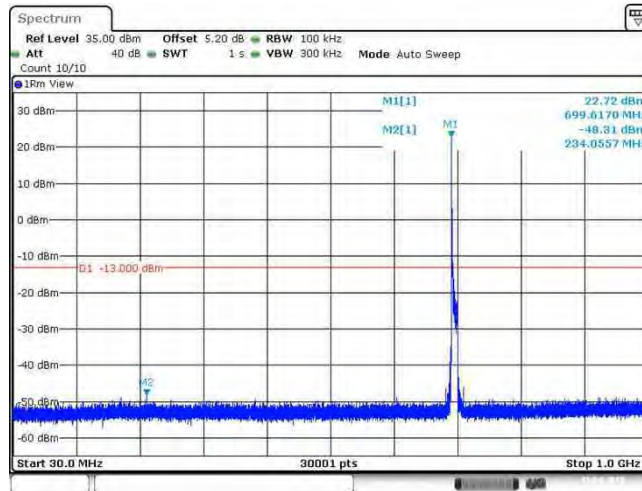


Date: 19 APR. 2019 20:48:52

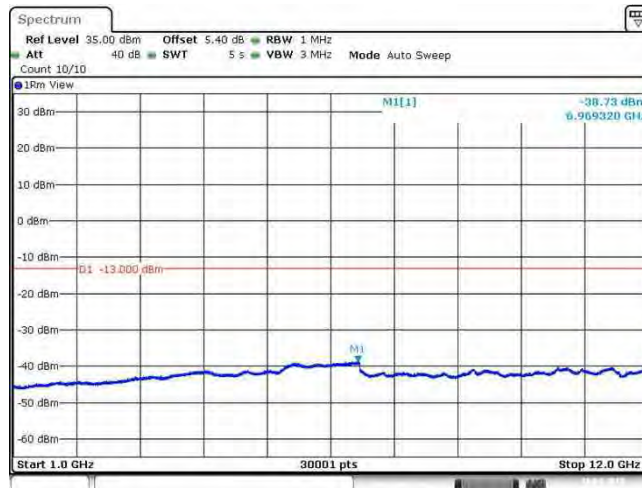
Band12_10MHz_64QAM_23060_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



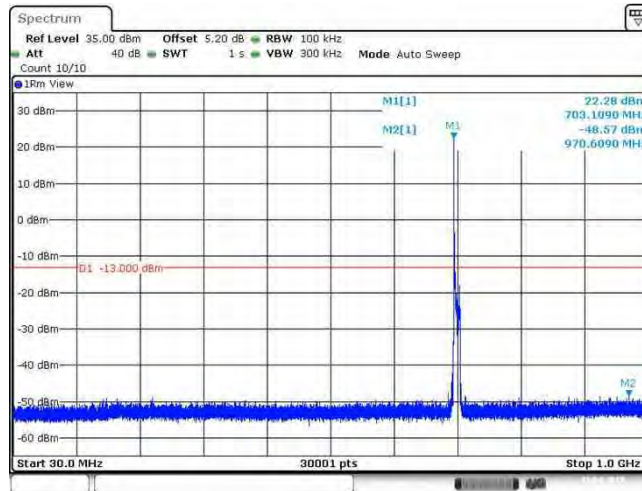
Band12_10MHz_64QAM_23060_1RB#0



Band12_10MHz_64QAM_23095_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



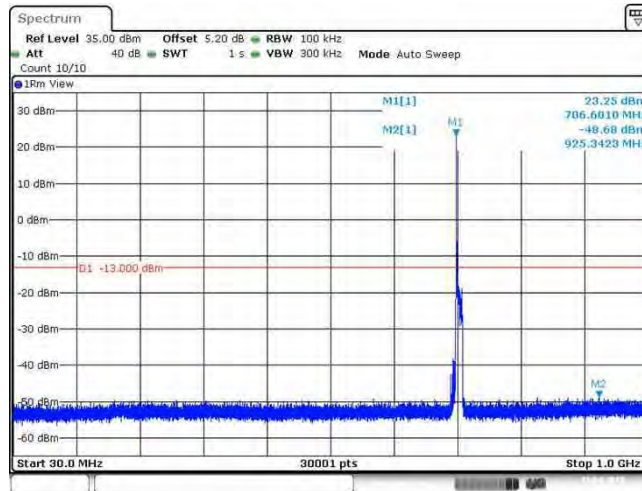
Band12_10MHz_64QAM_23095_1RB#0



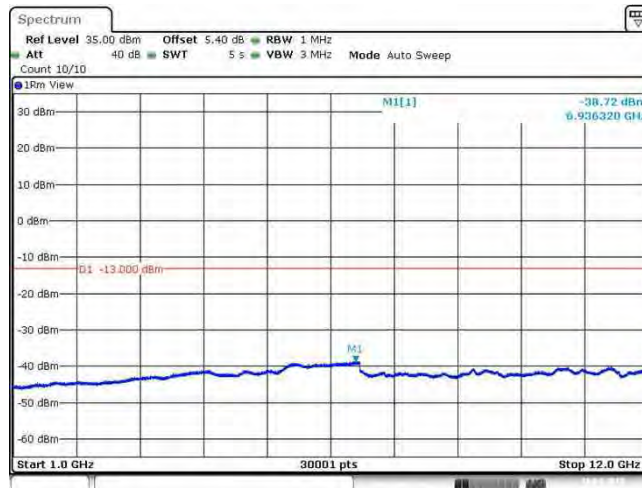
Band12_10MHz_64QAM_23130_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



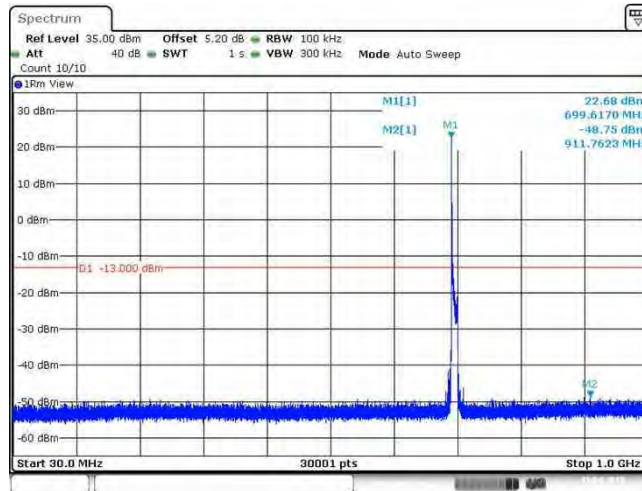
Band12_10MHz_64QAM_23130_1RB#0



Band12_10MHz_16QAM_23060_1RB#0

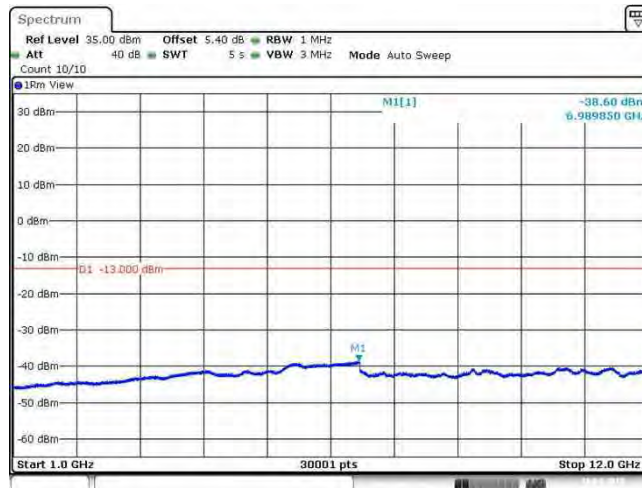


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 19 APR. 2019 20:10:13

Band12_10MHz_16QAM_23060_1RB#0

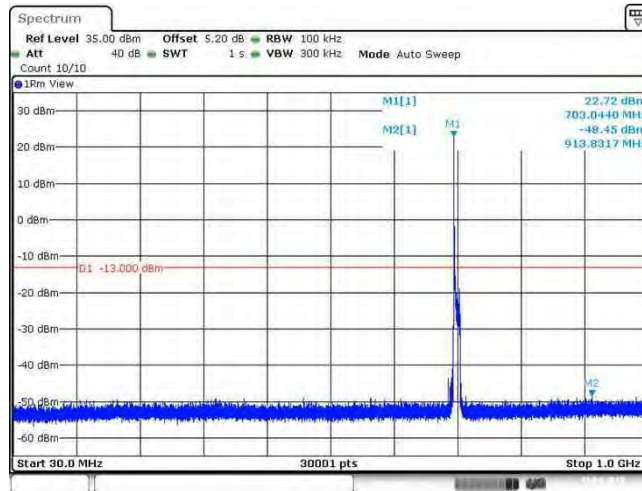


Date: 19 APR. 2019 20:11:23

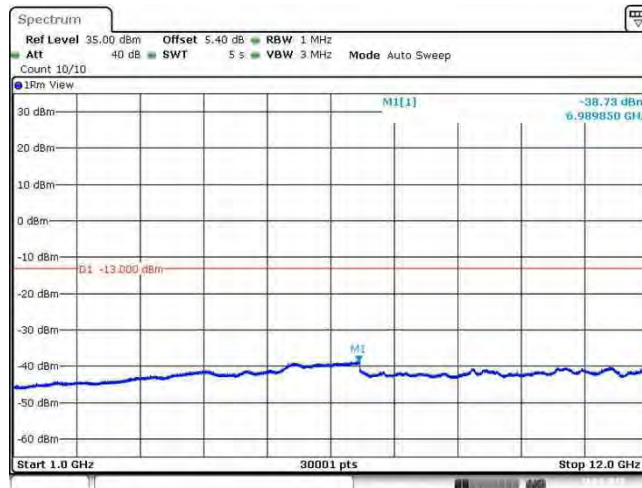
Band12_10MHz_16QAM_23095_1RB#0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



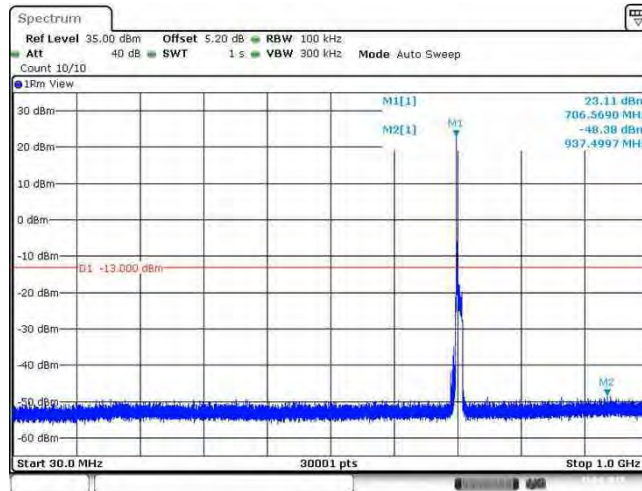
Band12_10MHz_16QAM_23095_1RB#0



Band12_10MHz_16QAM_23130_1RB#0

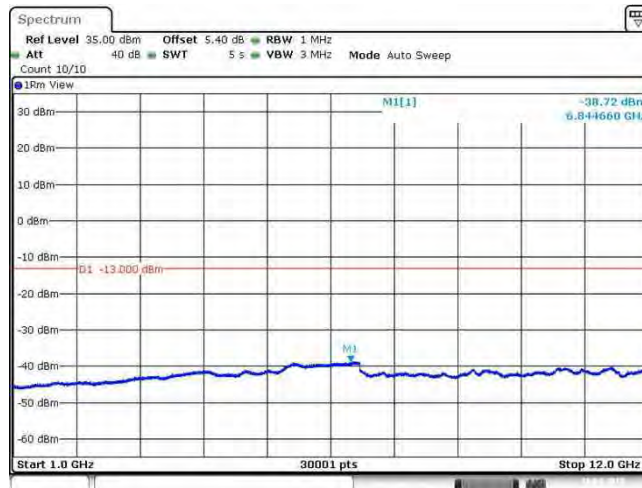


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



Date: 19 APR. 2019 20:19:11

Band12_10MHz_16QAM_23130_1RB#0



Date: 19 APR. 2019 20:20:21



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
 Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

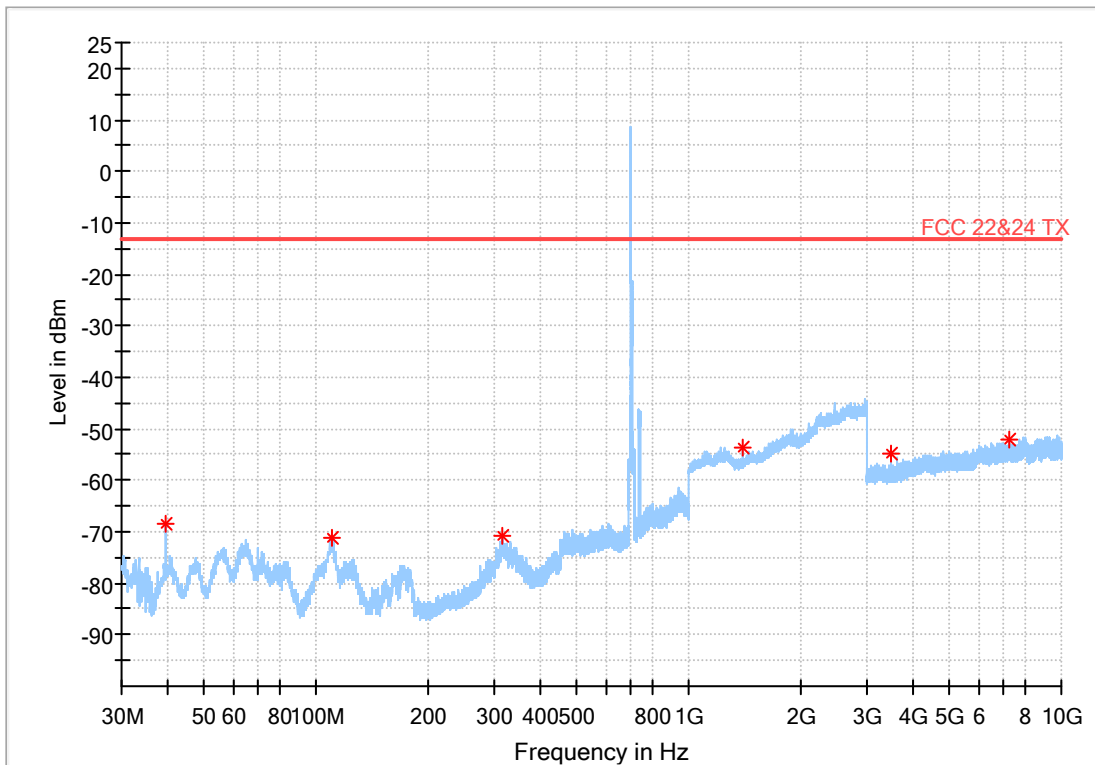
7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 12

7.1.1. Test Mode = LTE/TM1(Down Ant)

7.1.1.1. Test Channel = LCH_Vertical

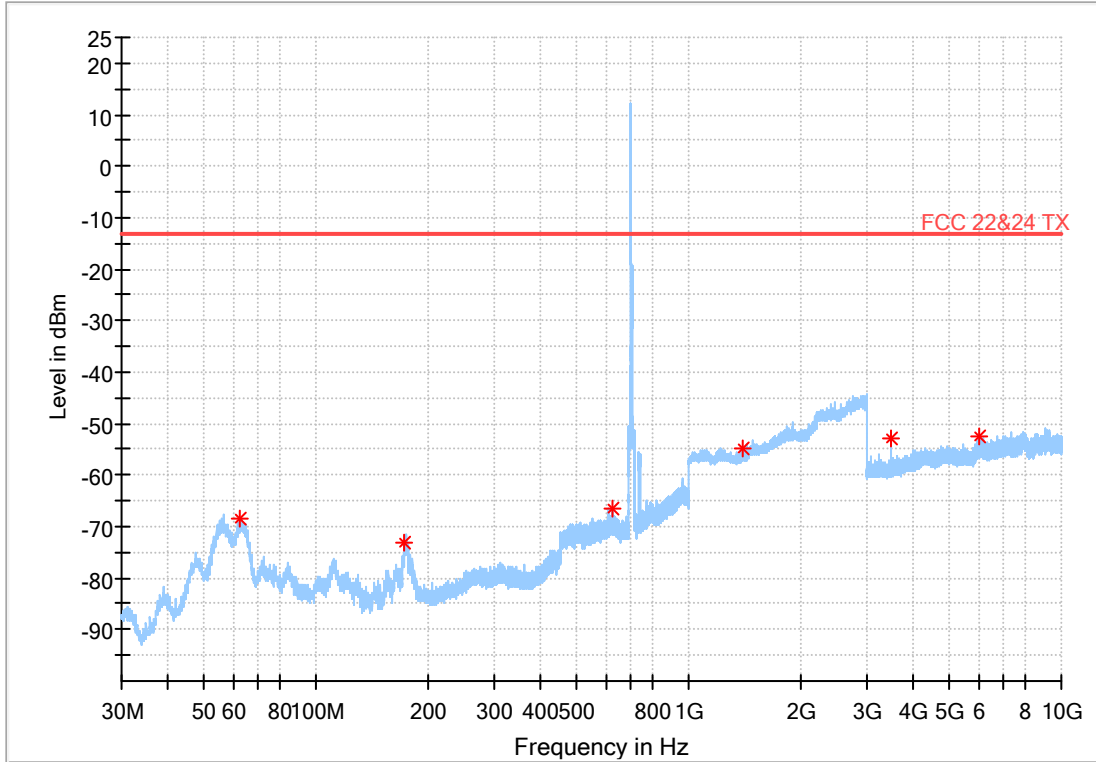
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.1.2. Test Channel = LCH_Horizontal

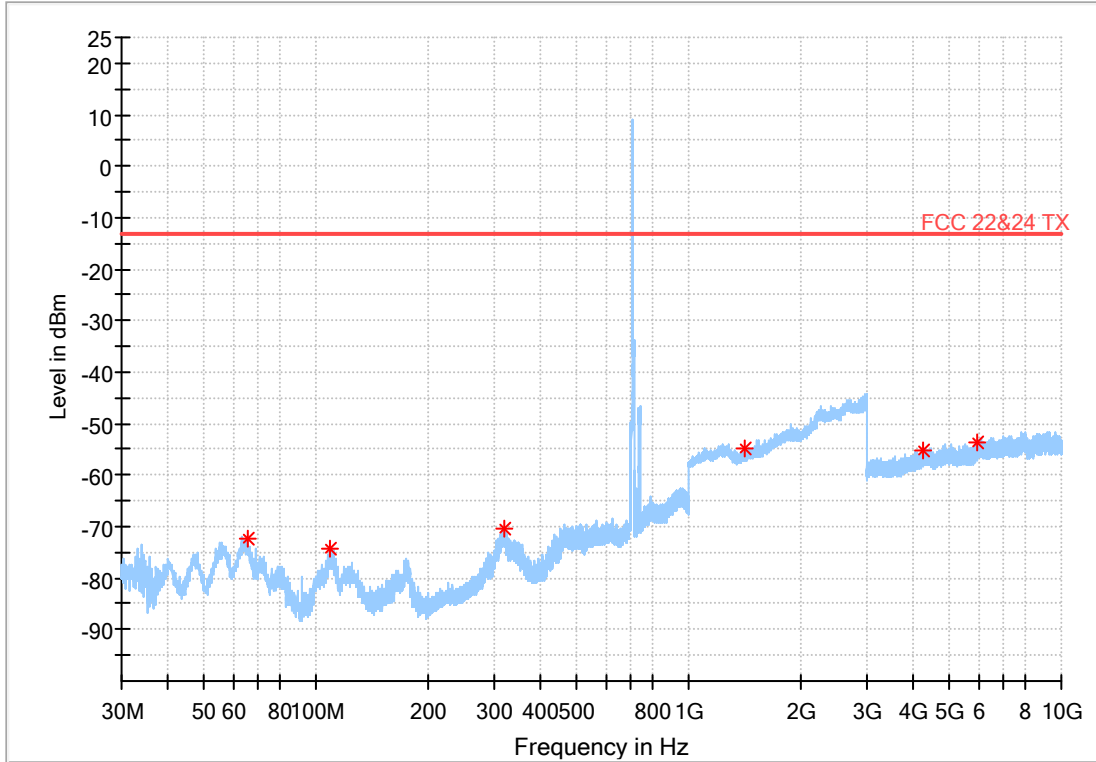
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.1.3. Test Channel = MCH_Vertical

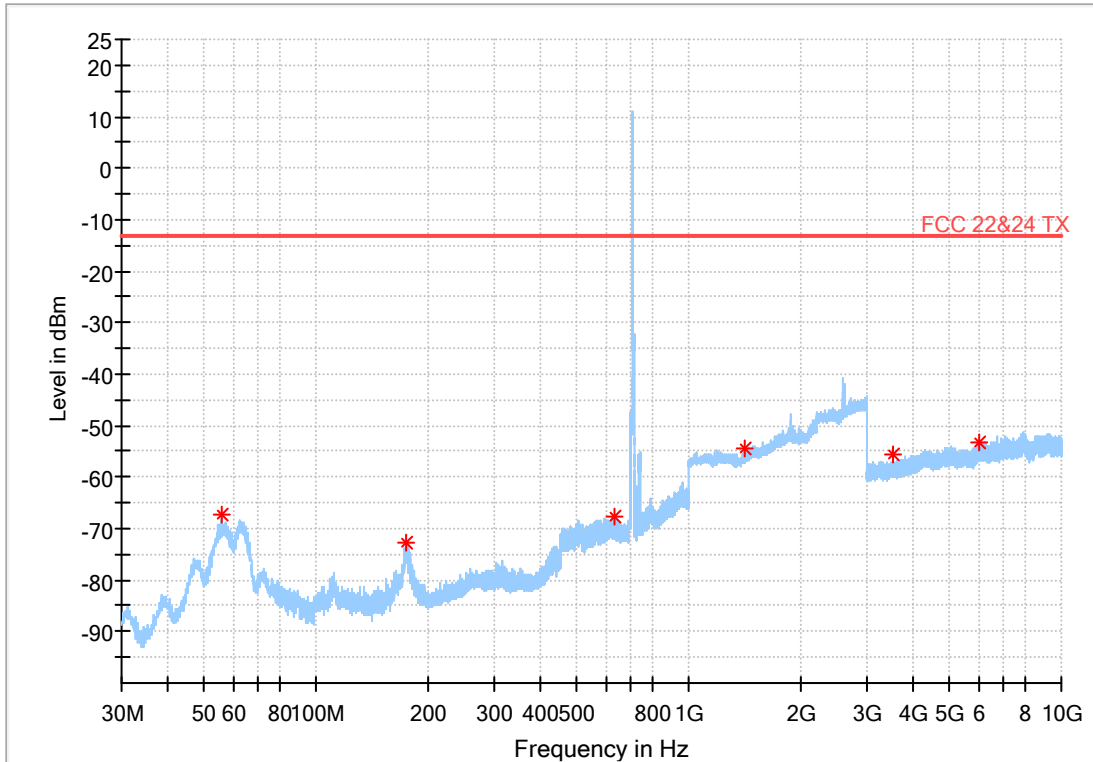
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.1.4. Test Channel = MCH_Horizontal

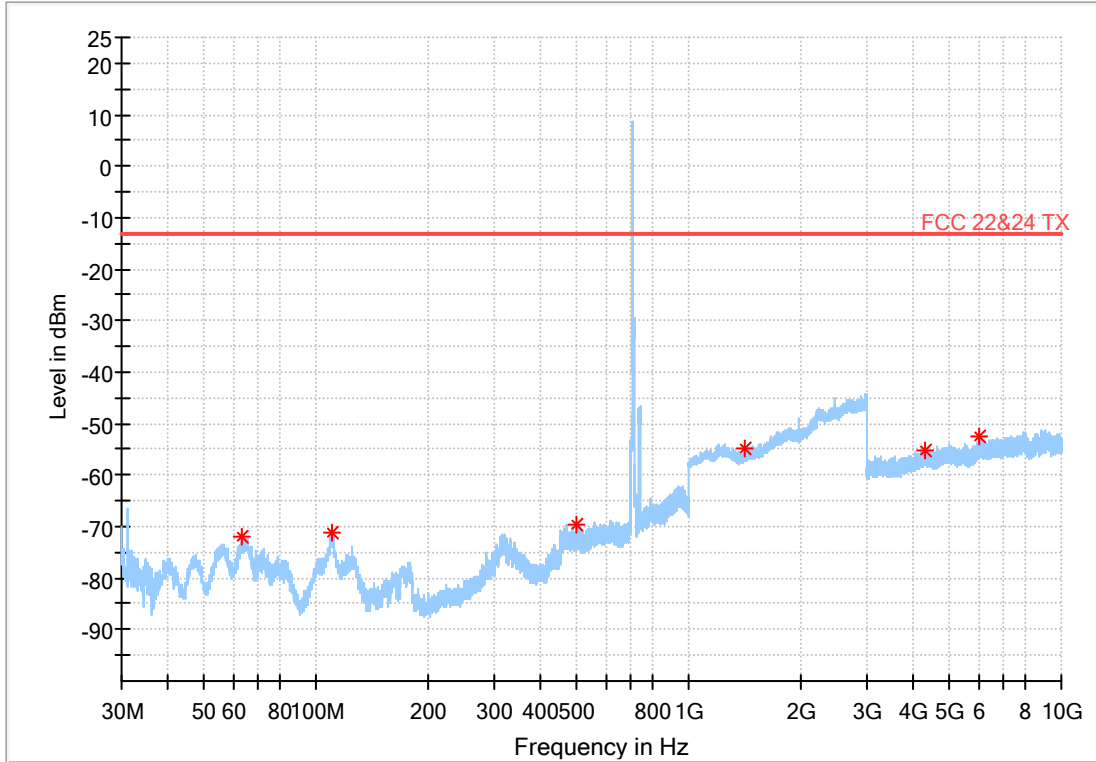
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.1.5. Test Channel = HCH_Vertical

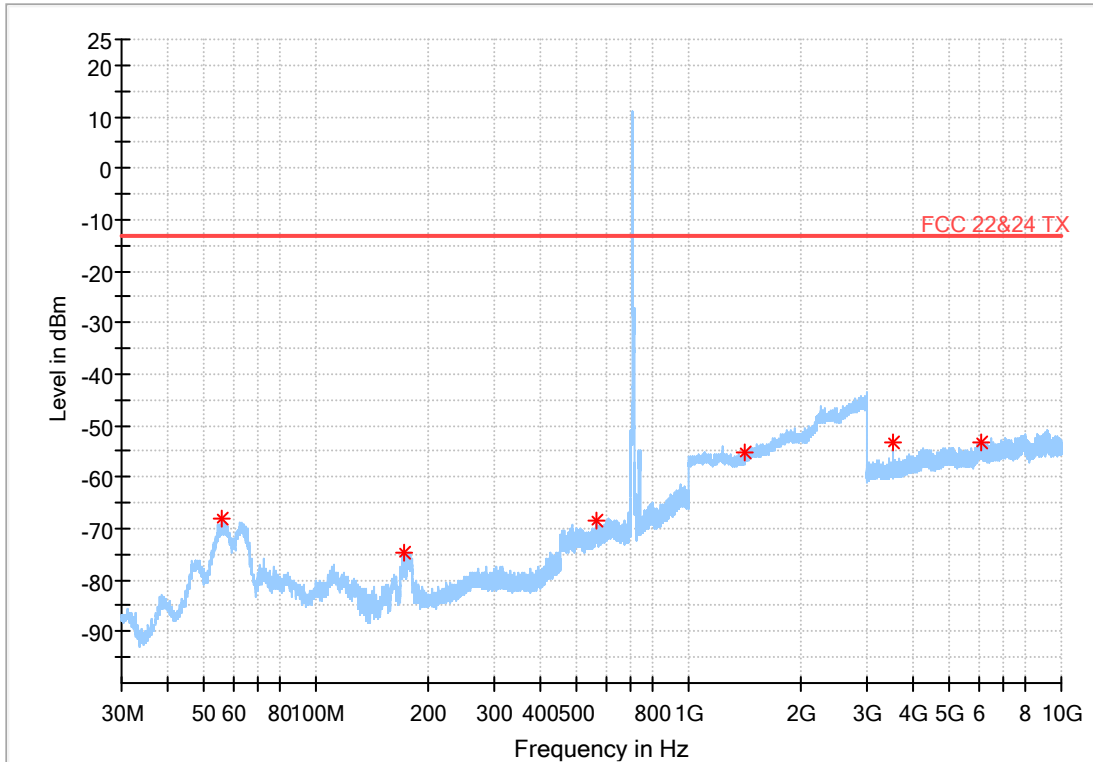
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.1.6. Test Channel = HCH_ Horizontal

Full Spectrum

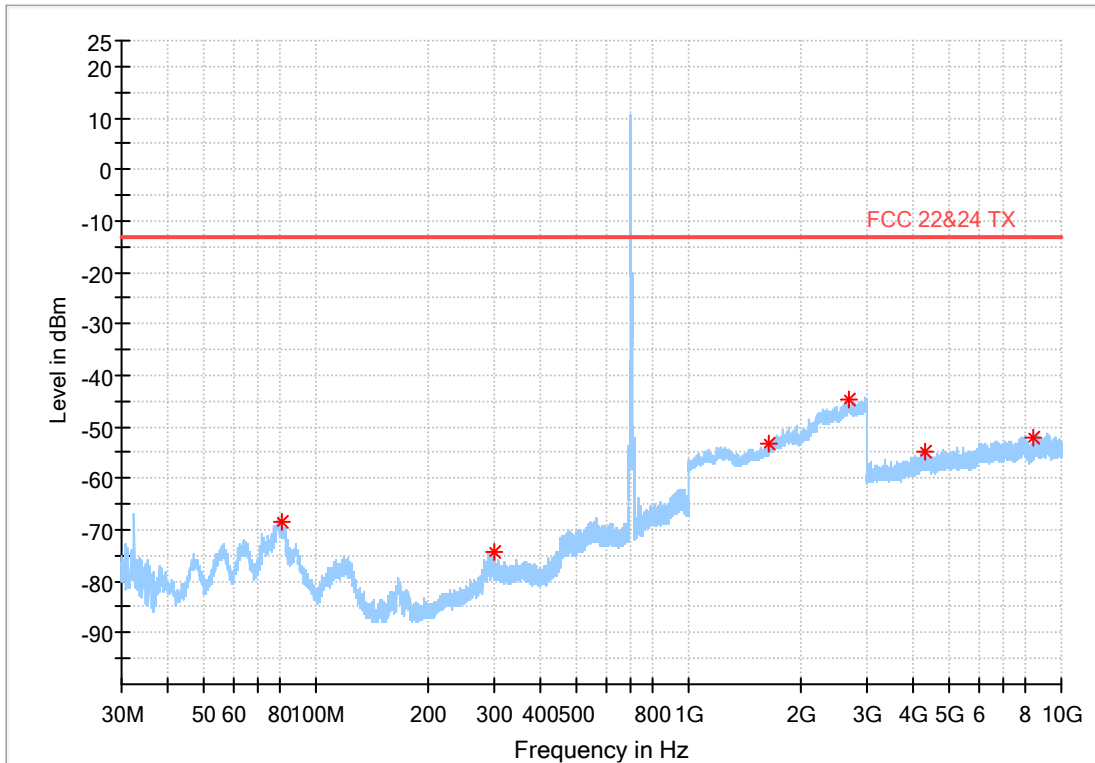


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.2. Test Mode = LTE/TM1 (Up Ant)

7.1.2.1. Test Channel = LCH_Vertical

Full Spectrum

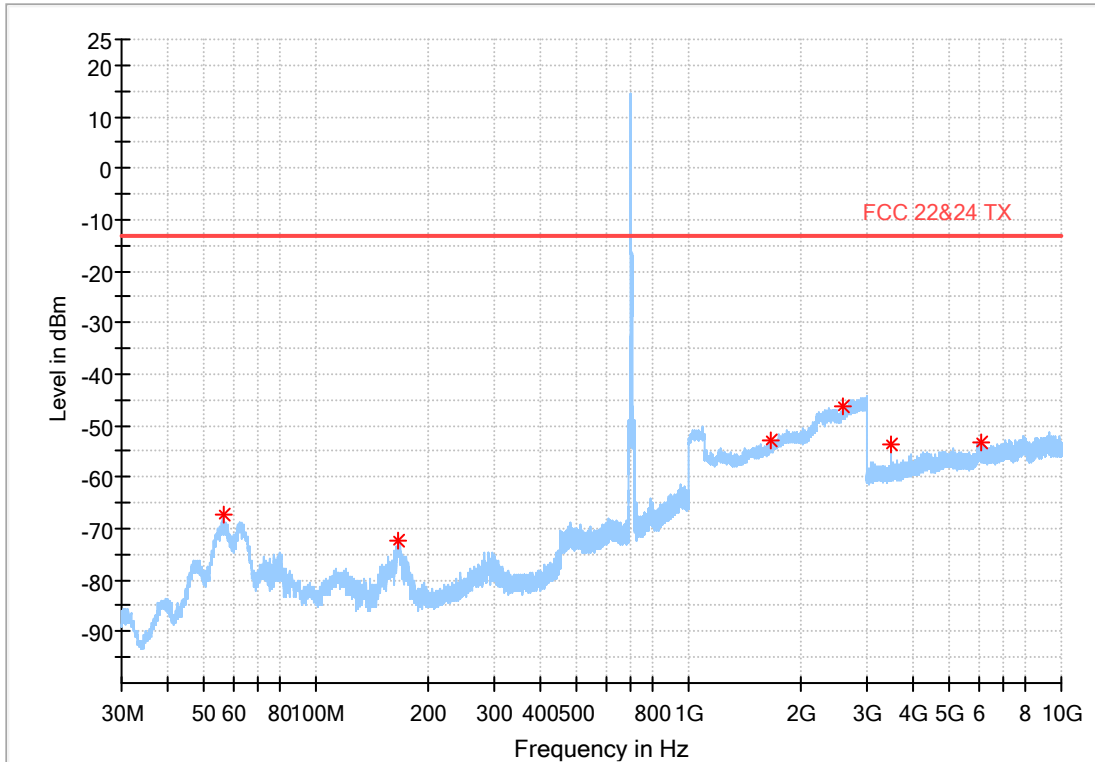


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.1.2.2. Test Channel = LCH_Horizontal

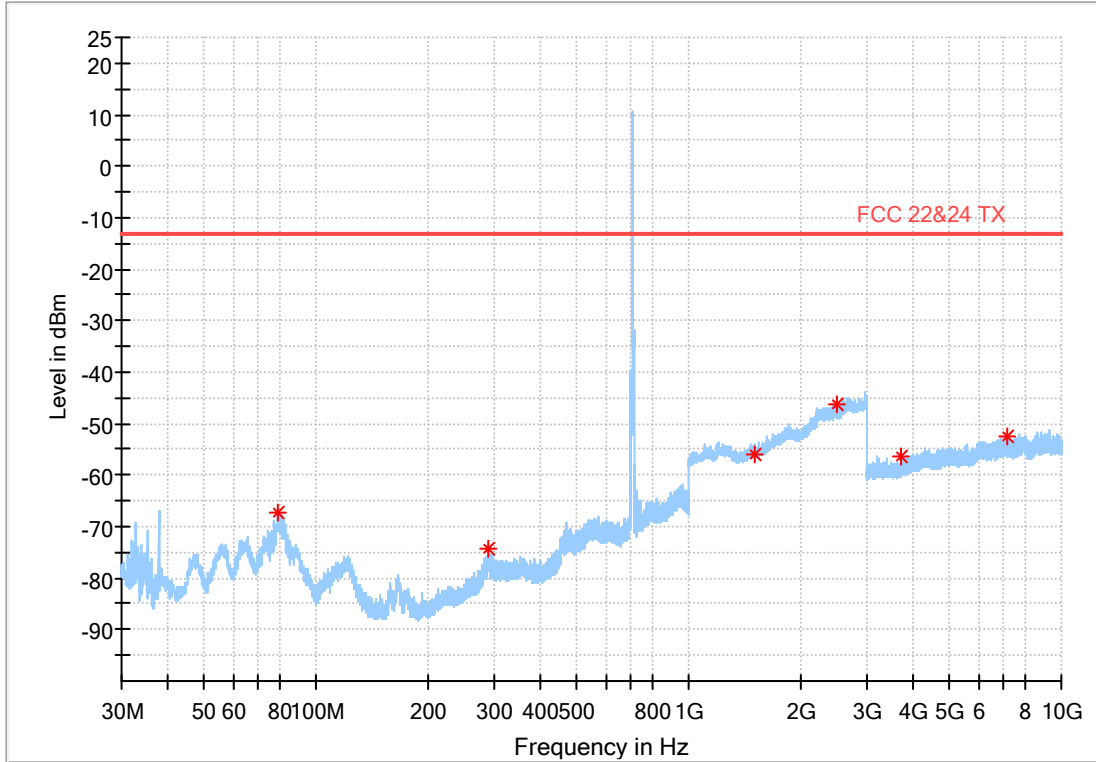
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.2.3. Test Channel = MCH_Vertical

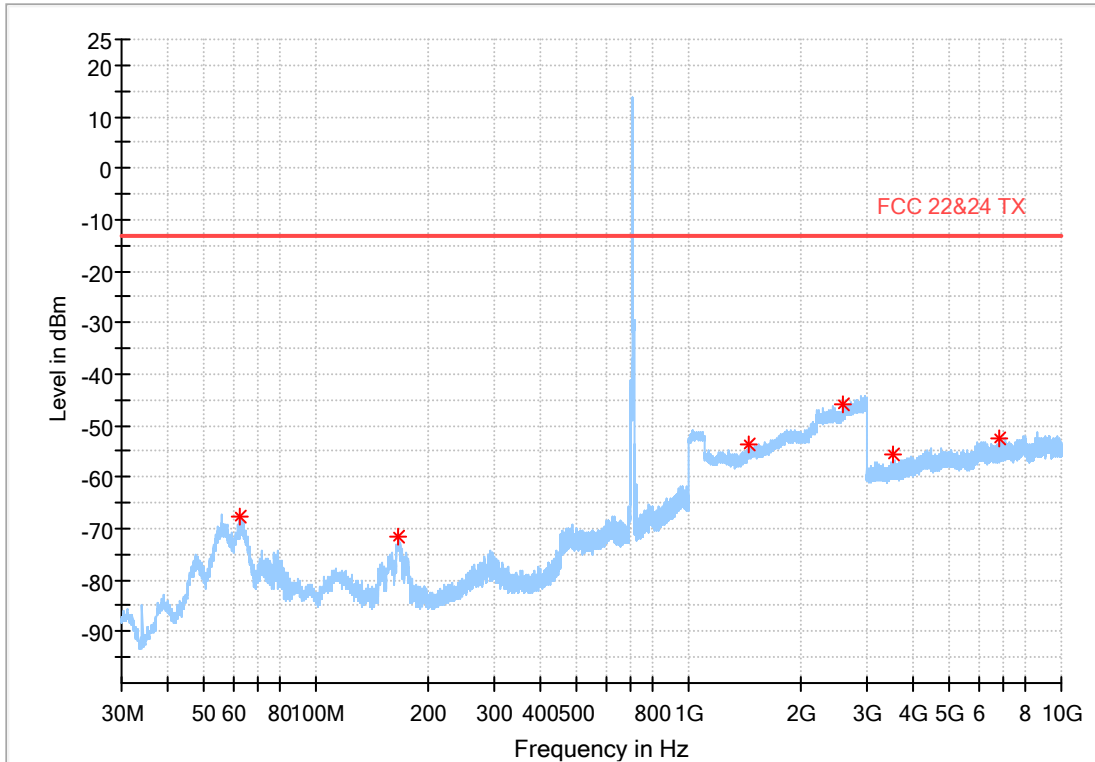
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.2.4. Test Channel = MCH_ Horizontal

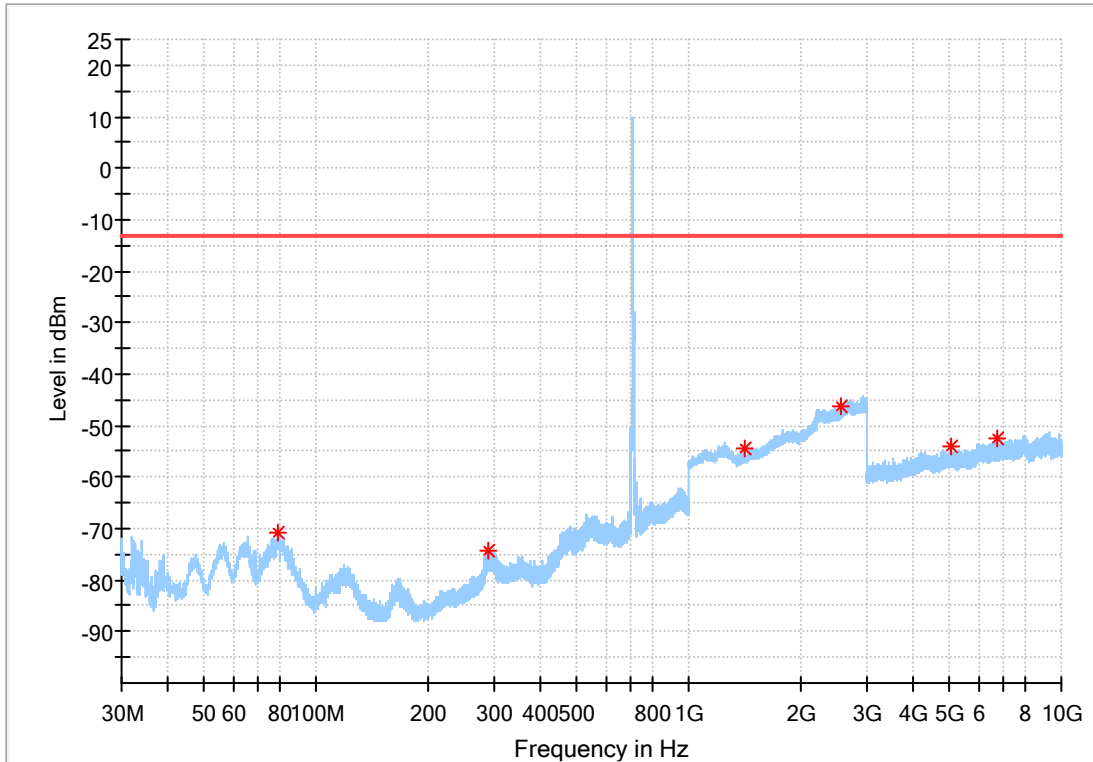
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.2.5. Test Channel = HCH_Vertical

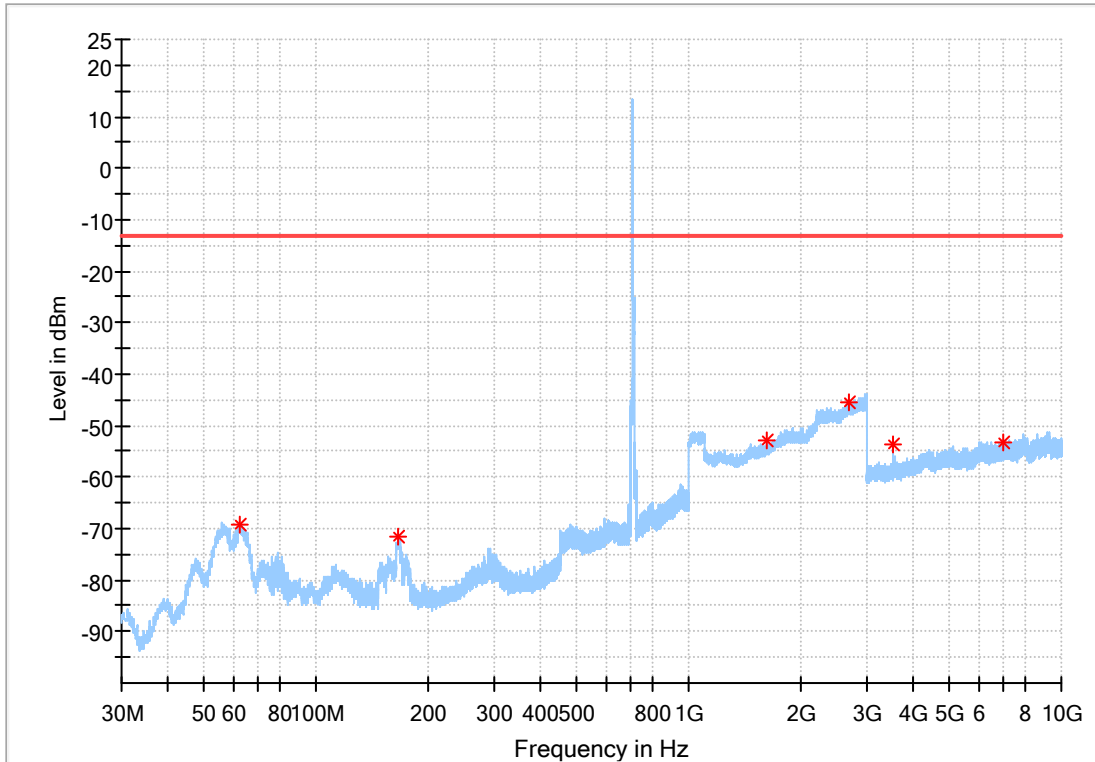
Full Spectrum



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

7.1.2.6. Test Channel = HCH_ Horizontal

Full Spectrum



Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	0.10	0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	1.00	0.001420	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	1.60	0.002273	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.70	0.000989	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.70	0.000989	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	0.90	0.001266	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	0.40	0.000568	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	0.30	0.000426	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	1.10	0.001563	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	0.50	0.000707	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	0.30	0.000424	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	-0.50	-0.000703	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	0.40	0.000568	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	0.70	0.000994	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	0.40	0.000568	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	0.30	0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	0.40	0.000563	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	1.20	0.001688	±2.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	1.20	0.001705	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	0.20	0.000284	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	0.30	0.000426	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	1.10	0.001563	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.50	0.000707	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.10	0.001555	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	0.50	0.000703	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	0.50	0.000703	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-30	0.60	0.000852	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-20	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	0	0.20	0.000284	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	10	0.20	0.000284	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	30	0.70	0.000994	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	40	1.00	0.001420	±2.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	10MHz	64QAM	23060	50RB#0	NV	50	0.50	0.000710	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	0.40	0.000565	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	0.90	0.001272	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	0.20	0.000283	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	1.00	0.001413	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	0.70	0.000989	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-30	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-20	-0.60	-0.000844	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	10	0.60	0.000844	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	20	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	30	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	40	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	50	0.50	0.000703	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	0.20	0.000284	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	0.20	0.000284	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	0.50	0.000710	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	0.30	0.000426	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-0.20	-0.000284	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	1.50	0.002131	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-0.40	-0.000565	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	0.50	0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	0.50	0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	0.10	0.000141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	0.20	0.000283	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	0.70	0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	0.20	0.000283	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	0.20	0.000283	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	0.70	0.000985	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	0.60	0.000844	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	0.20	0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	1.60	0.002250	±2.5	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band12	10MHz	16QAM	23130	50RB#0	NV	30	0.70	0.000985	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-1.00	-0.001406	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	0.50	0.000703	±2.5	PASS

The End



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.